FH-G50/MHC-501/S200

SERVICE MANUAL

FH-G50 and MHC-501/S200 are composed of following models.
As for the service manual, it is issued for each component models, then, please refer to it.

US Model
Canadian Model
MHC-S200
AEP Model
MHC-501
E Model
Australian Model
Tourist Model
FH-G50

COMPONENT MODEL NAME FOR FH-G50 and MHC-501/S200

System / Component	FH-G50	MHC-501	MHC-S200
Tuner, deck, CD, amplifier	HCD-H501		
Speaker System	SS-H501		SS-H701

SPECIFICATIONS

Supplied accessories
AM loop antenna (1)
Remote commander (1)
Sony SUM-3 (NS) batteries (2)
FM lead antenna (1)

Design and specifications are subject to change without notice.

- Abbreviation

CND	: Canadian	MY	: Malaysia
IT	: Italian	SP	: Singapore
G	: German	MX	: Mexican
EE	: East European	AR	: Argentine
EA	: Saudi Arabia	JE	: Tourist
AUS	: Australian	HK	: Hong Kong

PARTS LIST (Accessories & Packing Materials)

NOTE :
- Items marked " * "are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

Part No.	Description
1-473-039-11	COMMANDER, STANDARD (RM-S22)
1-501-374-11	ANTENNNA, LOOP
1-501-594-11	ANTENNNA, (FM) (501:EXCEPT G)
1-501-659-11	ANTENNNA, (FM) (G50, S200)
1-769-306-11	CORD, SPEAKER (FOR SS)
3-798-355-11	MANUAL, INSTRUCTION (ENGLISH) (S200:US, CND/G50:AUS)
3-798-355-41	MANUAL, INSTRUCTION (FRENCH) (S200:CND/G50:E, EA, MY)
3-798-355-51	MANUAL, INSTRUCTION (ENGLISH/SPANISH/CHINESE) (G50:E, EA, SP, MY, MX, HK, AR)
3-798-355-61	MANUAL, INSTRUCTION (ENGLISH/KOREAN/PORTUGUESE/ RUSSIAN) (G50:JE)
3-798-355-71	MANUAL, INSTRUCTION (ARABIC) (G50:E, EA)
3-798-356-41	MANUAL, INSTRUCTION (FRENCH/SPANISH/PORTUGUESE/DUTCH) (501:AEP)
3-798-356-51	MANUAL, INSTRUCTION (GERMAN) (501:G)
3-798-356-61	MANUAL, INSTRUCTION (ITALIAN) (501:AEP, IT)
3-798-356-71	MANUAL, INSTRUCTION (ENGLISH/GERMAN) (501:AEP, EE)
3-798-356-81	MANUAL, INSTRUCTION (RUSSIAN/POLISH) (501:EE)
3-798-356-91	MANUAL, INSTRUCTION (DANISH, FINNISH, SWEDISH) (501:AEP)
4-941-762-01	COVER, BATTERY (FOR RM-S22)
* 4-971-217-01	CUSHION (FOR SS)
* 4-972-969-01	CUSHION (FRONT) (FOR HCD-501)
* 4-972-970-01	CUSHION (REAR) (FOR HCD-501)
* 4-972-973-01	INDIVIDUAL CARTON (S200)
* 4-972-974-01	INDIVIDUAL CARTON (501:EXCEPT EE)
* 4-972-975-01	INDIVIDUAL CARTON (501:EE)
* 4-972-976-01	INDIVIDUAL CARTON (G50:AUS)
* 4-972-977-01	INDIVIDUAL CARTON (G50:AR, E, HK, MX, MY, SP)
* 4-972-978-01	INDIVIDUAL CARTON (G50:EA, JE)

MINI Hi-Fi COMPONENT SYSTEM

SONY®

MICROFILM

9-960-149-11

Sony Corporation
Consumer A&V Products Company
Home A&V Products Div.

English
95B02102-1
Printed in Japan
©1995.2
Published by Home A&V Products Div.
Quality Engineering Dept.

HCD-H501

SERVICE MANUAL

Photo : AEP Model

US Model
Canadian Model
AEP Model
UK Model
E Model
Australian Model
Tourist Model

- HCD-H501 is the tuner, deck, CD and amplifier section in FH-G50.
- HCD-H501 is the tuner, deck, CD and amplifier section in MHC-501 and MHC-S200.

Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.
"DOLBY" and the double-D symbol DD are trademarks of Dolby Laboratories Licensing Corporation.

CD Section	Model Name Using Similar Mechanism	HCD-H801
	CD Mechanism Type	CDM28-5BD19
	Base Unit Name	BU-5BD19
Tape deck Section	Model Name Using Similar Mechanism	NEW
	Tape Transport Mechanism Type	TCM180VW-H13

SPECIFICATIONS

CD player section

System: Compact disc digital audio system
Laser: Semiconductor laser
Wavelength: 780 – 790 nm
Frequency response: 2 Hz – 20 kHz

Tuner section

FM stereo, FM/AM superheterodyne tuner

FM tuner section

Tuning range: 87.5 -108.0 MHz (50 kHz step for except US, Canadian, East European model) (100kHz step for US, Canadian model)
FM1 : 65 - 74MHz (10kHz step)
FM2 : 87.5 - 108MHz
(East European model)
Antenna: FM lead antenna
Antenna terminals: 75 ohm unbalanced
Intermediate frequency: 10.7 MHz

AM tuner section

Tuning range
US, Canadian model :
AM : 530 - 1,710kHz (10kHz step)
AM : 531 - 1,710kHz (9kHz step)
AEP, UK, East European, German model :
MW : 531 - 1,602kHz (9kHz step)
LW : 153 - 279kHz
Italian model :
MW : 522 - 1,611kHz (9kHz step)
LW : 153 - 279kHz
E, Saudi Arabia, Argentine, Hong Kong, Mexican, Malaysia, Singapore, Australian, Tourist model :
MW: 531 – 1,602 kHz
(9 kHz step)
530 – 1,710 kHz
(10kHz step)
SW: 5.95 – 17.9 kHz
(E, Saudi Arabia, Hong Kong, Tourist, Malaysia, Singapore model)
Antenna: AM loop aerial
External aerial terminals
Intermediate frequency
450 kHz

Tape player section

Recording system
4-track 2-channel stereo
Frequency response
(DOLBY NR OFF)
60 – 13,000 Hz (±3 dB),
using Sony TYPE I cassette
60 – 14,000 Hz (±3 dB),
using Sony TYPE II cassette
Wow and flutter
0.1% WRMS ±0.3% (DIN)

— Continued on page 2 —

COMPACT DISC DECK RECEIVER

SONY

Amplifier section

Peak music power output:
400 W (2 speakers driven)
Continuous RMS power output
40 + 40 W (6 ohms at 1 kHz, 5% THD)
Inputs
MIX MIC (phone jack):
Sensitivity 1 mV, impedance 600 ohms
AUX IN: Sensitivity 450 mV, impedance 47 kilohms
Outputs
PHONES (stereo phone jack):
accept headphones of 8 ohms or more.
SPEAKER: accept impedance of 6 to 16 ohms.

Speaker section

Speaker system
2-way system
Speaker units Woofer: 14 cm dia., cone type
Tweeter: 5 cm dia., cone type
Enclosure Bass reflex
Frequency range
60 Hz – 20 kHz
Sensitivity 87 dB/W/m
Rated impedance
6 ohms
Dimensions Approx. 210 × 325 × 250 mm (w/h/d)
Mass Approx. 3.6 kg net per speaker

Supplied accessories

AM loop antenna (1)
Remote (1)
Sony SUM-3 (NS) batteries (2)
FM lead antenna (1)

General

Power requirement

Destination	Power requirements	Power consumption
US, Canadian model	120V AC, 50Hz	60W
Australian model	220 – 240V AC, 50Hz	120W
AEP, German, Italian, East European model	220 – 230V AC, 50/60Hz	60W
UK model	240V AC, 50Hz	60W
E, Saudi Arabia, Hong Kong, Tourist, Malaysia, Mexican, Singapore, Argentine model	110 – 120V/220V – 240V AC, 50/60Hz Adjustable with the Voltage Selector	120W

Dimensions Approx. 280 × 325 × 335 mm (w/h/d) incl. projecting parts and controls
Mass Approx. 8 kg

Design and specifications are subject to change without notice.

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety check before releasing the set to the customer:
Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microampers). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable. (See Fig. A)

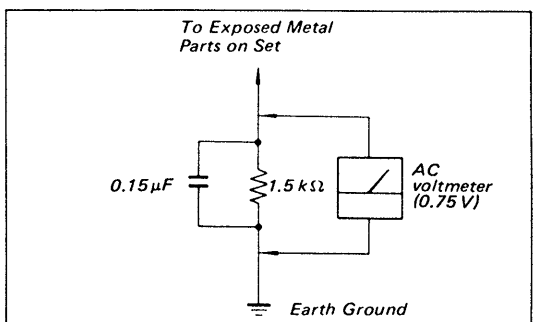


Fig. A. Using an AC voltmeter to check AC leakage.

SAFETY-RELATED COMPONENT WARNING!!

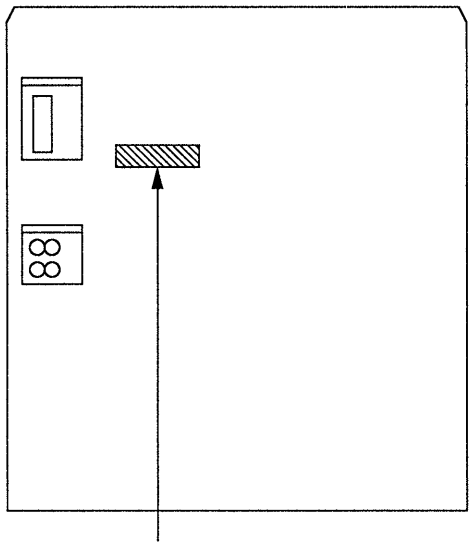
COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

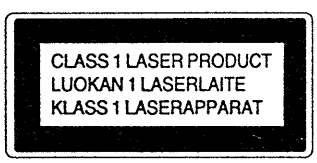
MODEL IDENTIFICATION

– BACK PANEL –

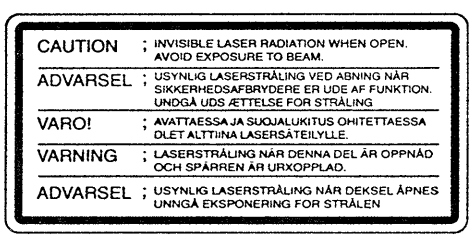


4-972-055-0☐: AEP (AE1) model
4-972-055-2☐: Italian model
4-972-055-3☐: German model
4-972-055-4☐: UK (UK2) model
4-972-055-5☐: East European model
4-972-055-6☐: US model
4-972-055-7☐: Canadian model
4-972-055-8☐: AEP (AE2) model
4-972-055-9☐: UK (UK1) model
4-972-056-0☐: E, Argentine, Tourist model
4-972-056-1☐: Saudi Arabia model
4-972-056-2☐: Australian model
4-972-056-3☐: Malaysia model
4-972-056-4☐: Singapore model
4-972-056-5☐: Hong Kong model
4-972-056-6☐: Mexican model

Laser component in this product is capable of emitting radiation exceeding the limit for Class 1.



This appliance is classified as a CLASS 1 LASER product. The CLASS 1 LASER PRODUCT MARKING is located on the rear exterior.


CAUTION ; INVISIBLE LASER RADIATION WHEN OPEN. AVOID EXPOSURE TO BEAM.
ADVARSEL ; USYNLIG LASERSTRÅLING VED ÅBNING NÅR SIKKERHEDSAFBRYDERE ER UDE AF FUNKTION. UNDGÅ UDS ÆTTELSE FOR STRÅLING
VARO! ; AVATTAESSA JA SUOJALUKITUS OHITETTAESSA OLET ALTTIINA LASERSÄTEILYLLE.
VARNING ; LASERSTRÅLING NÄR DENNA DEL ÄR OPPNÄD OCH SPÄRREN ÄR URXOPPLAD.
ADVARSEL ; USYNLIG LASERSTRÅLING NÅR DEKSEL ÅPNES UNNGÅ EKSPONERING FOR STRÅLEN

This caution label is located inside the unit.

CAUTION
Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

TABLE OF CONTENTS

Section *Title* *Page*

Specifications ····· 1

1. SERVICING NOTES ····· 4

2. GENERAL
Index to Parts and Controls ····· 4

3. DISASSEMBLY
3-1. CD Mechanism Removal ····· 6
3-2. Front Panel Removal ····· 6
3-3. TC Mechanism Removal ····· 7

4. ADJUSTMENTS
4-1. Mechanical Adjustments ····· 8
4-2. Electrical Adjustments ····· 8

5. EXPLANATION OF IC TERMINALS ····· 14

6. DIAGRAMS
6-1. Block Diagram – CD Section – ····· 19
6-2. Block Diagram – Main Section – ····· 21
6-3. Circuit Board Location ····· 26
6-4. Printed Wiring Boards – Main Section – ····· 26
6-5. Schematic Diagram – Main Section – ····· 31
6-6. Schematic Diagram – Panel Section – ····· 37
6-7. Printed Wiring Boards – Panel Section – ····· 39
6-8. Printed Wiring Boards – BD Section – ····· 41
6-9. Schematic Diagram – BD Section – ····· 42
6-10. IC Block Diagrams ····· 45

7. EXPLODED VIEWS
7-1. Chassis Section ····· 48
7-2. Front Panel Section ····· 50
7-3. Mechanism Deck Section-1 ····· 51
7-4. Mechanism Deck Section-2 ····· 52
7-5. Mechanism Deck Section-3 ····· 53
7-6. CD Mechanism Section ····· 54
7-7. Base Unit Section ····· 55

8. ELECTRICAL PARTS LIST ····· 56

SECTION 1
SERVICING NOTES

NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT

The laser diode in the optical pick-up block may suffer electrostatic breakdown because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body.
During repair, pay attention to electrostatic breakdown and also use the procedure in the printed matter which is included in the repair parts.
The flexible board is easily damaged and should be handled with care.

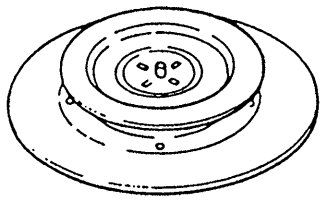
NOTES ON LASER DIODE EMISSION CHECK

The laser beam on this model is concentrated so as to be focused on the disc reflective surface by the objective lens in the optical pick-up block. Therefore, when checking the laser diode emission, observe more than 25cm away form the objective lens.

CHUCK PLATE JIG ON REPAIRING

On repairing CD section, playing a disc without the CD lid, use Chuck Plate Jig.

- Code number of Chuck Plate Jig : X-4918-255-1



SECTION 2
GENERAL

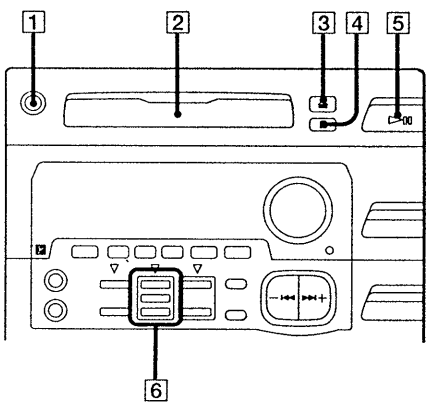
This section is extracted from instruction manual.

Index to Parts and Controls

Refer to the pages indicated in parentheses for how to use the controls.
Controls with an asterisk have indicators on themselves.

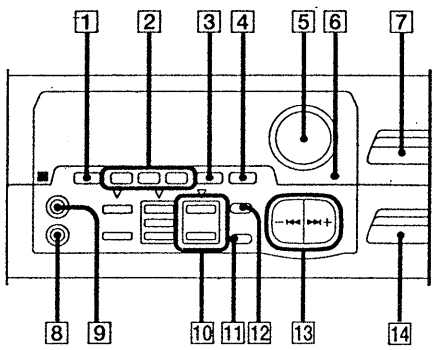
Front Panel

CD player



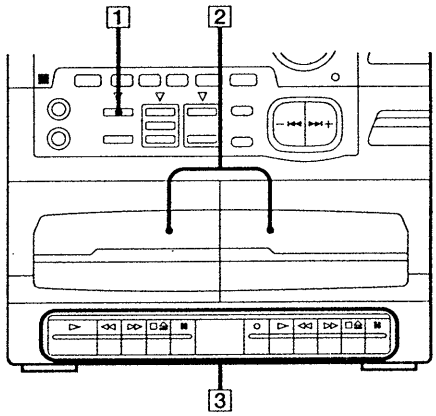
1 SYSTEM POWER ON/STAND BY switch
2 CD tray
3 ⏏ OPEN / CLOSE button
4 ■ (stop) button
5 ▷II (play and pause) button
6 CD operating buttons
CONTINUE button
SHUFFLE button
PROGRAM button

Tuner/Amplifier



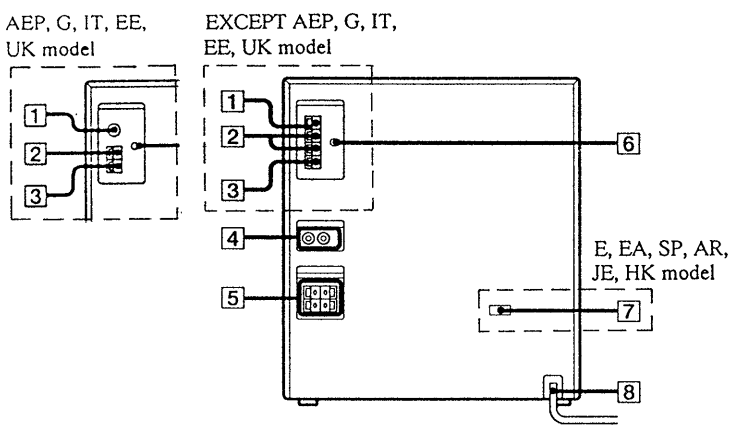
1 DISPLAY button
2 Preset equalizer setting buttons*
3 KARAOKE PON/MPX button
4 DBFB button
5 VOLUME control
6 CLOCK SET button
7 FUNCTION button
8 PHONES jack
9 MIX MIC jack
10 Tuner operating buttons
TUNING MODE button
MONO button
11 ENTER/NEXT button
12 TUNER MEMORY button
13 – ⏮/⏭ + buttons
14 TUNER/BAND button

Tape player



1 DOLBY NR button*
2 Tape compartments
3 Tape operating buttons
▷ (play)
▶▶ (fast rightward)
◀◀ (fast leftward)
■ ⏏ (stop play/eject)
● (recording)(for deck B only)
❚❚ (pause) (12)

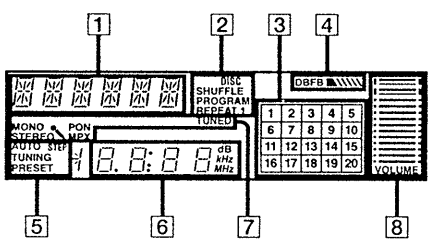
Rear panel



1 FM 75 Ω COAXIAL terminal : AEP, G, IT, EE, UK model

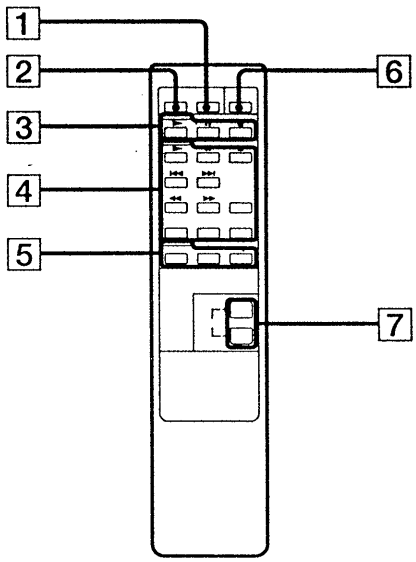
1 FM 75 Ω terminal : EXCEPT AEP, G, IT,EE, UK model
2 ⏚ earth terminals
3 AM terminal
4 AUX IN jacks
5 SPEAKER connectors
6 ⏚ ground terminal
7 VOLTAGE SELECTOR : E, EA, SP, AR, JE, HK model
8 Power cord

Display window



1 Function indication
2 CD play mode indications
3 Music calendar
4 DBFB indication
5 AUTO/TUNING/PRESET/STEP indications
6 Frequency/time indication
7 Tuner/Karaoke indications
8 VOLUME indication

Remote (RM-S22)



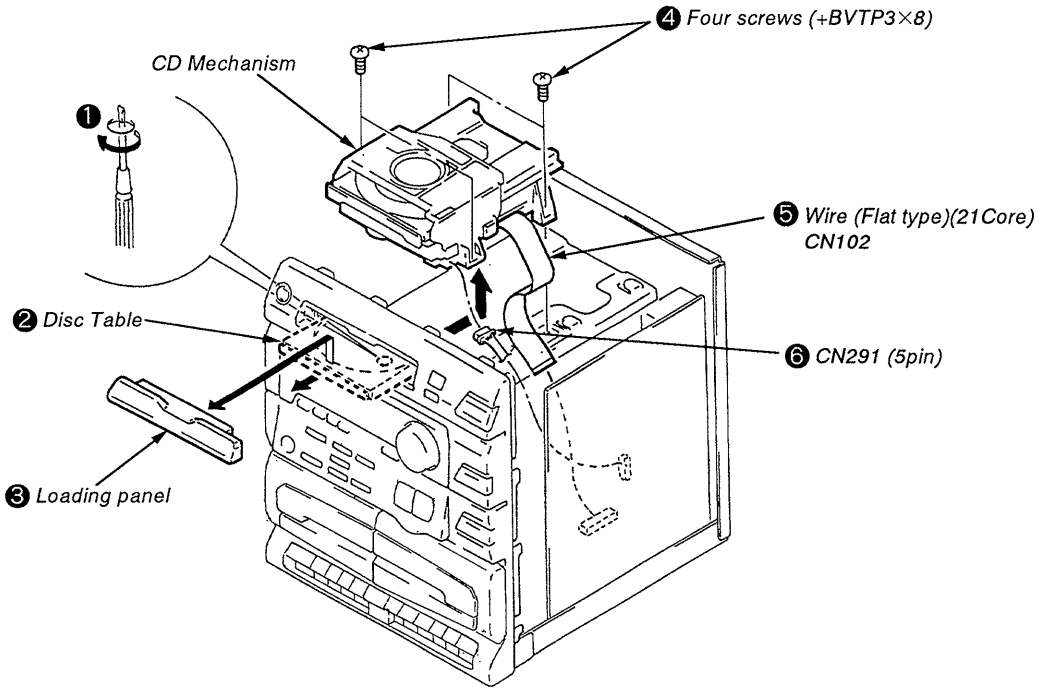
1 SLEEP button
2 FUNCTION button
3 MD operating buttons
► (play) button
❚❚ (pause) button
■ (stop play) button
4 CD operating buttons
► (play) button
❚❚ (pause) button
■ (stop play) button
⏮ / ⏭ (AMS) buttons
◀◀ / ▶▶ (fast forward/fast reverse) buttons
REPEAT button
EDIT button
CHECK button
CLEAR button
5 Tuner operating buttons
BAND button
PRESET (+/–) buttons
6 SYSTEM POWER button
7 VOL(+/–) buttons

• Abbreviation
G : German
IT : Italian
EE : East European
EA : Saudi Arabia
AR : Argentine
HK : Hong Kong
JE : Tourist
SP : Singapore

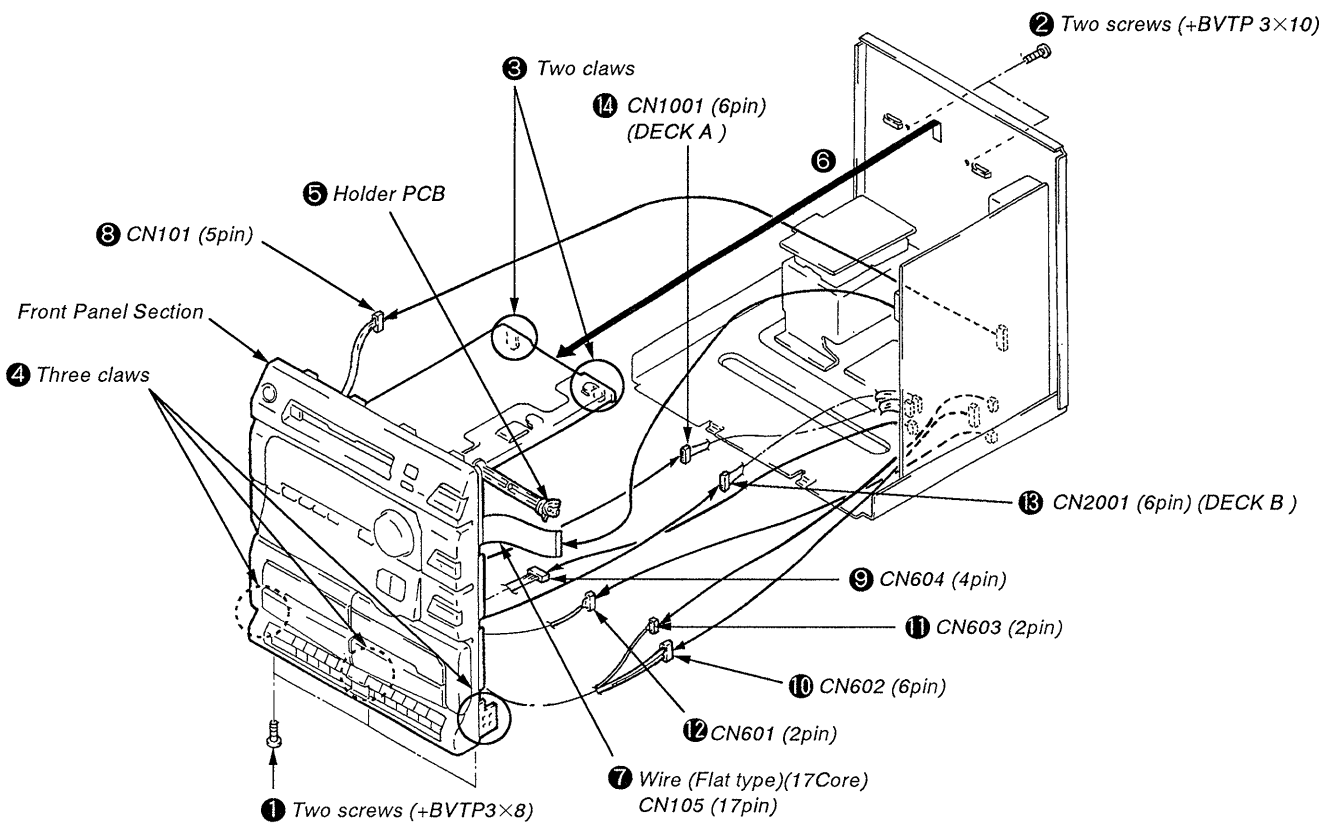
SECTION 3
DISASSEMBLY

Note : Follow the disassembly procedure in the numerical order given.

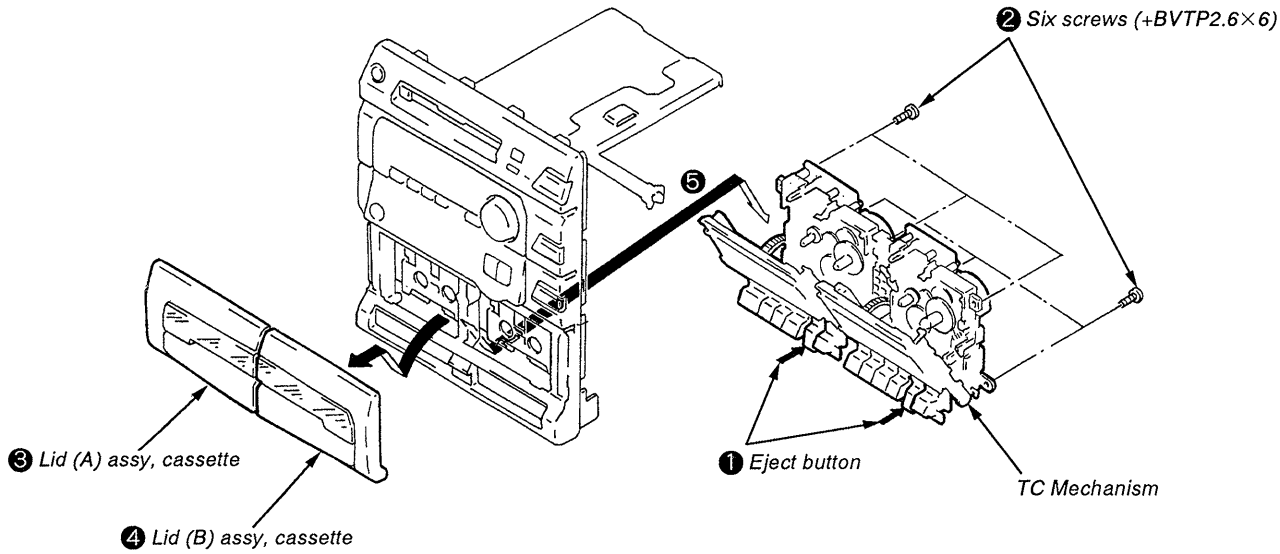
3-1. CD MECHANISM REMOVAL



3-2. FRONT PANEL REMOVAL



3-3. TC MECHANISM REMOVAL



SECTION 4
ADJUSTMENTS

4-1. MECHANICAL ADJUSTMENTS

PRECAUTION

1. Clean the following parts with a denatured-alcohol-moistened swab :
   record/playback head　　pinch roller
   erase head　　rubber belts
   capstan　　idlers
2. Demagnetize the record/playback head with a head demagnetizer.
3. Do not use a magnetized screwdriver for the adjustments.
4. After the adjustments, apply suitable locking compound to the parts adjusted.
5. The adjustments should be performed with the rated power supply voltage unless otherwise noted.

• Torque Measurement

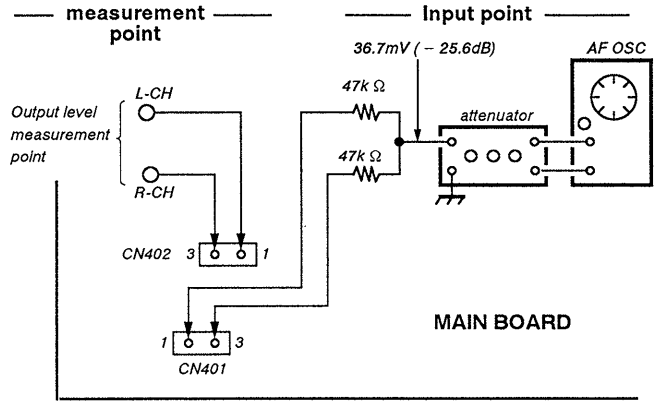
Mode	Torque Meter	Meter Reading
Forward	CQ-102C	30 to 70g•cm (0.42 – 0.97 oz•inch)
Forward Back Tension	CQ-102C	1.5 to 5.5g•cm (0.021 – 0.076 oz•inch)
FF, REW	CQ-201B	more than 63g•cm (0.88 oz•inch)

4-2. ELECTRICAL ADJUSTMENTS

DECK SECTION

1. The adjustment should be performed in the publication. (Be sure to make playback adjustment at first.)
2. The adjustment and measurement should be performed for both L-CH and R-CH.
   • Switch position
   DOLBY NR switch : OFF
   FUNCTION button : CD
3. Deck section electrical adjustments are made in test mode by pressing TUNER/BAND, DISPLAY, and POPS at the same time.
4. Input point and output level measurement point.

Output level



• Test Tape

Tape	Contents	Use
P-4-A100	10kHz, – 10dB	Head Azimuth Adjustment
P-4-L300	315Hz, 0dB	Level Adjustment
WS-48B	3kHz, 0dB	Tape Speed Adjustment

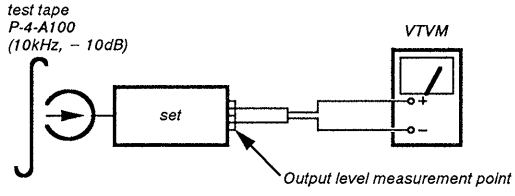
0 dB=0.775V

Record/Playback Head Azimuth Adjustment

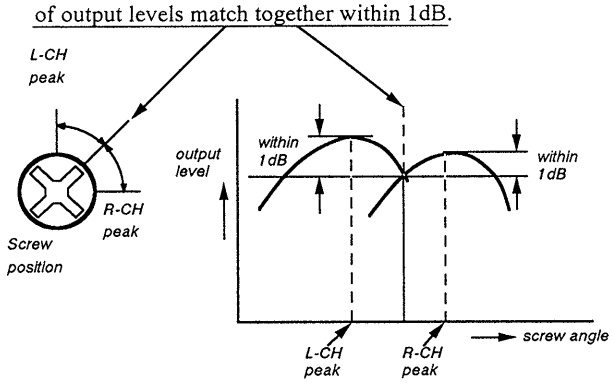
DECK A **DECD B**

Procedure :

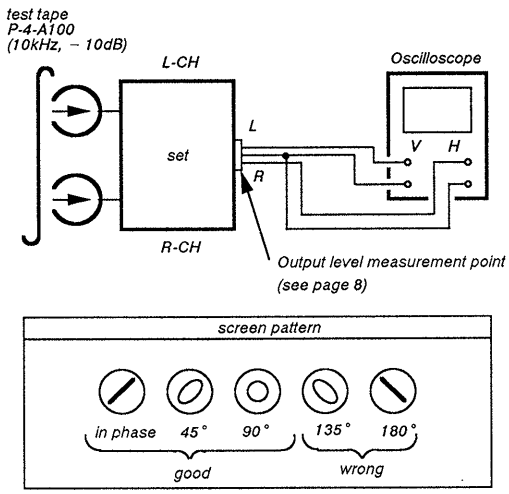
1. Forward Playback mode
   Reverse Playback mode



2. Turn the adjustment screw for the maximum output levels.If these levels do not match,turn the adjustment screw until both of output levels match together within 1dB.



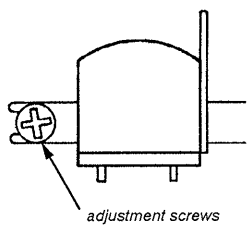
3. Playback Mode



4. Change the review playback mode and repeat the steps 1 to 3.
5. After the adjustment, lock the adjustment screw with suitable locking compound.

Adjustment Location :

– record/playback head (Deck A and Deck B) –

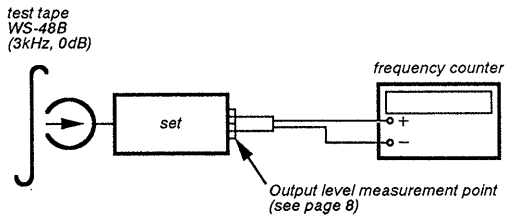


Tape Speed Adjustment DECK A DECK B

Procedure :

- Perform high speed adjustment before normal speed adjustment.

  Mode : Playback



1. Set to FWD playback mode.
2. Adjust RV670 so that the frequency counter reading becomes 3,000 ± 15Hz.

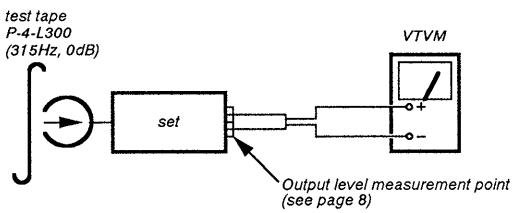
Frequency difference between the begining and the end of the tape should be within ± 3%.

Adjustment Location : MAIN board.
(see page 10)

Playback Level Adjustment DECK A DECK B

Procedure :

Mode : Playback



Deck A is RV601(L-CH) and RV651(R-CH), deck B is RV602 (L-CH) and RV652 (R-CH) so that adjustment within adjustment level as follows.

Adjustment Level :

LINE OUT level : – 7.5 ± 0.5dB (0.31 to 0.35V)

Level Difference between Channels : within 0.5dB

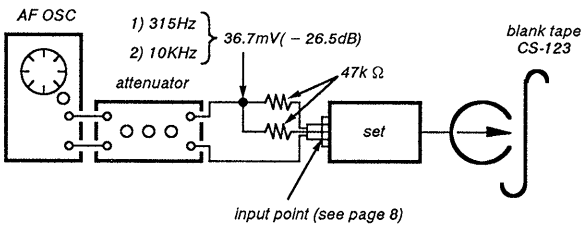
Confirm the DOLBY OUT level does not change in playback mode while changing the mode from playback to stop several times.

Adjustment Location : MAIN board.
(see page 10)

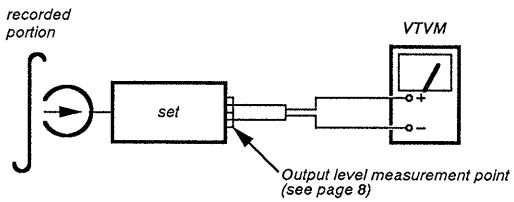
Record Bias Adjustment DECK B

Procedure :

1. Record mode



2. Playback mode



3. Confirm playback the signal recorded in step 1 become adjustment level as follows.
4. If these levels do not adjustment level, adjustment the RV620 (L-CH) and RV630 (R-CH) to repeat step 1 and 4.

Adjustment level : Playback output of 315Hz to playback output of 10kHz : – 0.5dB to 0.5dB.
(– 1.3 to 1.3mV)

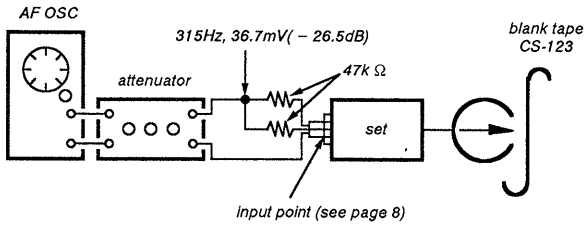
Adjustment Location : MAIN board.

Record Level Adjustment DECK B

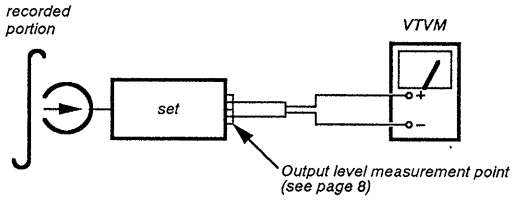
FUNCTION button : CD

Procedure :

1. Record mode



2. Playbacd mode



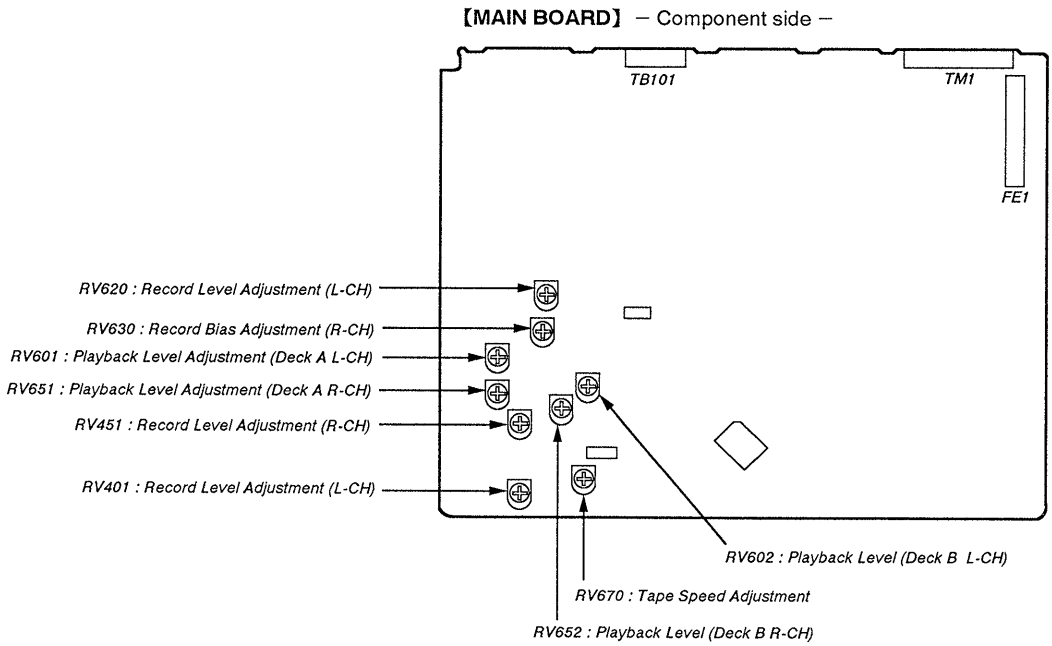
3. Confirm playback the signal recorded in step become adjustment level as follows.
4. If these levels do not adjustment level, adjustment the RV401(L-CH) and RV451 (R-CH) to repeat step 1 and 4.

Adjustment Level :

DOLBY OUT level : – 22.5dB ± 0.5dB (54.9 to 61.6mV)

Adjustment Location : MAIN board

Adjustment Location :


【MAIN BOARD】 – Component side –
TB101
TM1
FE1
RV620 : Record Level Adjustment (L-CH)
RV630 : Record Bias Adjustment (R-CH)
RV601 : Playback Level Adjustment (Deck A L-CH)
RV651 : Playback Level Adjustment (Deck A R-CH)
RV451 : Record Level Adjustment (R-CH)
RV401 : Record Level Adjustment (L-CH)
RV602 : Playback Level (Deck B L-CH)
RV670 : Tape Speed Adjustment
RV652 : Playback Level (Deck B R-CH)

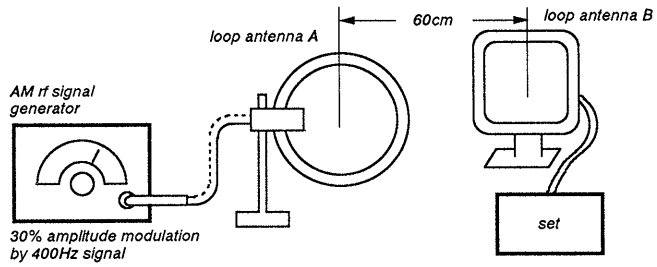
TUNER SECTION

Note. 1 : The adjustment should be performed in the publication. (AM → FM → SW)

Note. 2 : As a front-end (FE1) is difficult to repair if faulty, replace it with new one.

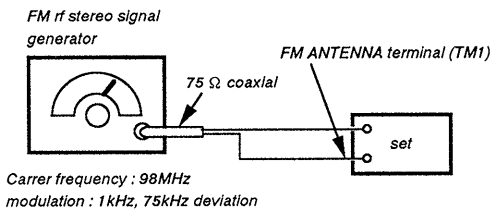
AM Section Adjustment

Setting :



FM Section Adjustment

Setting :



AM Tuned Indication Lighting Level Adjustment

Band : MW

Procedure :

1. Set loop antenna A so that the loop antenna B input level becomes 3.2mV (70dBμ)
2. Tune the set to 999kHz.
3. Adjust RV41 so that the TUNED light up.
4. Confirm that the TUNED light off with AM RF SG output level set at 0dBμ.
5. Confirm the FM tuned indication lighting level and adjust if necessary.

Adjustment Location : Main board

FM Tuned Indication Lighting Level Adjustment

Band : FM

Procedure :

1. Supply a 11.2μV (21dBμ) 98MHz signal to the ANTENNA terminal.
2. Tune the set to 98MHz.
3. Adjust RV42 so that the TUNED light up.
4. Confirm that the TUNED light off with FM RF signal generator output level set at 16dBμ.

Adjustment Location : Main board

SW OSC Voltage Adjustment

Band : SW

(E3, Saudi Arabia, Hong Kong, Malaysia, Singapore model)

Procedure :

1. Connecct the VOM to JW376 (OSC)
2. Tune the set to 5.95MHz.
3. Adjust T2 for 1.0 to 1.1V reading on the VOM.
4. Tune the set to 17.90MHz.
5. Adjust CV2 for 8.4 to 8.6V reading on the VOM.

SW Tracking Adjustment

Band : SW

Procedure :

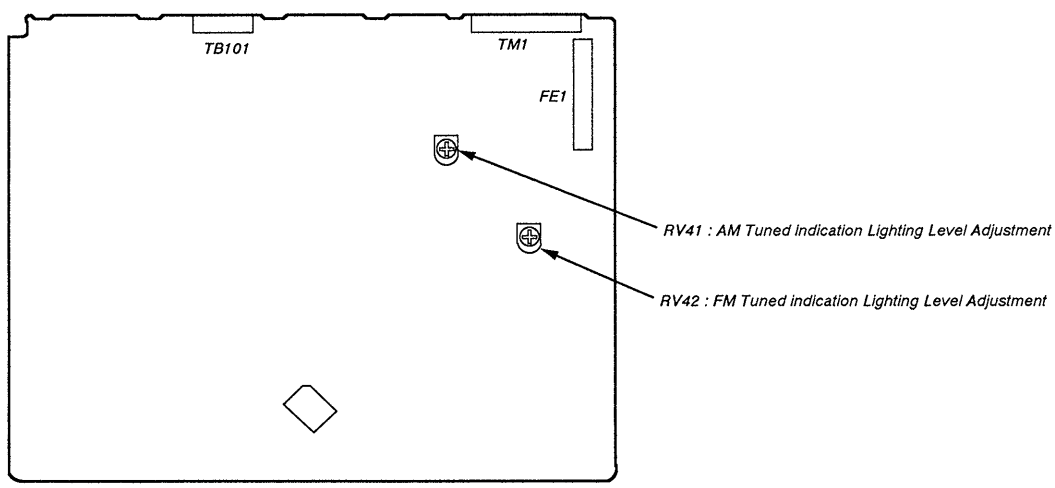
1. Connect the VOM to speaker terminal. (TB101)
2. Adjust for a maximum reading on VOM.

Signal generator and set frequency	Adjustment part
7.0 MHZ	T1
17.0 MHZ	CV1

Adjustment Location : Main board

Adjustment Location :

[MAIN BOARD] – Component side –



CD SECTION

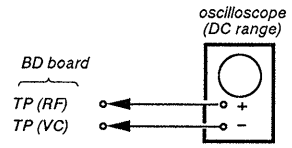
Note :

1. CD Block basically constructed to operate without adjustment. Therefore, check each item in order given.
2. Use YEDS-18 disc (3-702-101-01) unless otherwise indicated.
3. Use the oscilloscope with more than 10M Ω impedance.
4. Clean an object lens by an applicator with neutral detergent when the signal level is low than specified value with the following checks.

Focus Bias Adjustment

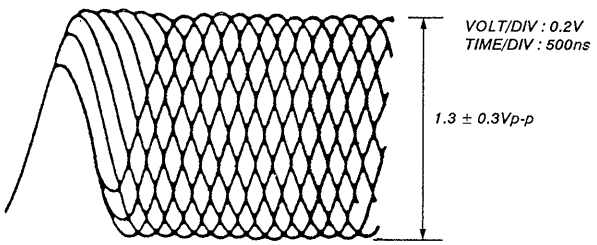
This adjustment is to be done when the optical block is replaced.

Adjustment procedure :



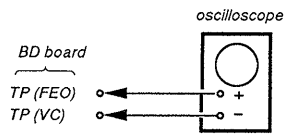
1. Connect oscilloscope to test point TP (VC) and TP (RF) on main board.
2. Turned power switch ON. (Stop mode)
3. Put disc (YEDS-18) in and press the ▶ button.
4. Press the DISPLAY/ENTER button. (Tracking servo ON)
5. Adjust RV101 so that the oscilloscope waveform is as shown in the figure below (eye pattern).
   A good eye pattern means that the diamond shape (◇) in the center of the waveform can be clearly distinguished.
6. Release test mode after adjustment is completed.

- RF signal reference waveform (eye pattern)



When observing the eye pattern, set the oscilloscope for AC range and raise vertical sensitivity.

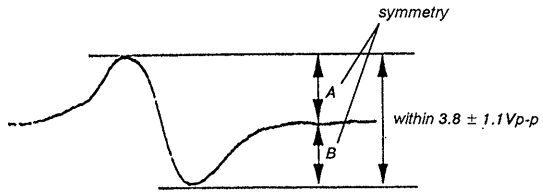
S-Curve Check



Procedure :

1. Connect oscilloscope to test point TP (FEO) and BD board.
2. Connect between test point TP (FOK) and GND by lead wire.
3. Turned Power switch on.
4. Put disc (YEDS-18) in and turned Power switch on again and actuate the focus search. (actuate the focus search when disc table is moving in and out.)
5. Check the oscilloscope waveform (S-curve) is symmetrical between A and B. And confirm peak to peak level within 3.8 ± 1.1Vp-p.

S-curve waveform

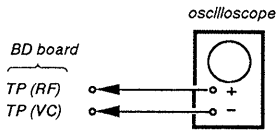


6. After check, remove the lead wire connected in step 2.

Note : ● Try to measure several times to make sure that the ratio of A : B or B : A is more than 10 : 7.

● Take sweep time as long as possible and light up the brightness to obtain best waveform.

RF Level Check



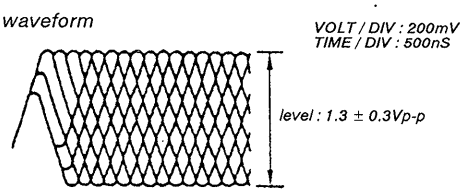
Procedure :

1. Connect oscilloscope to test point TP (RF) on BD board.
2. Turned Power switch on.
3. Put disc (YEDS-18) in and playback.
4. Confirm that oscilloscope waveform is clear and check RF signal level is correct or not.

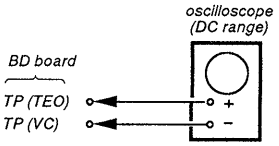
Note :

Clear RF signal waveform means that the shape " ◇ " can be clearly distinguished at the center of the waveform.

RF signal waveform



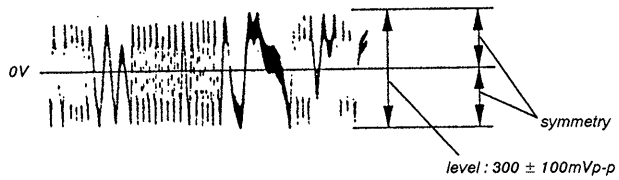
E-F Balance Check



Procedure :

1. Ground main board IC101 pin ⑯ with the lead wire.
2. Connect oscilloscope to test point TP (TEO) on BD board.
3. Turned Power switch on.
4. Put disc (YEDS-18) in and playback.
5. Confirm that the osilloscope waveform is symmetrical on the top and bottom in relation to 0V, and check this level.

Traverse waveform



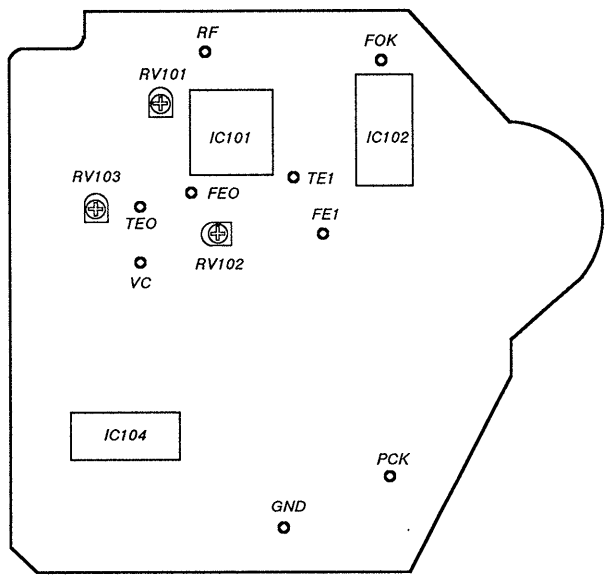
6. Remove the lead wire connected in step 1.

Focus/Tracking Gain

This gain has a margin, so even if it is slightly off. There is no problem.
Therefore, do not perform, this adjustment.
Please note that it should be fixed to mechanical center position when you moved and do not know original position.

Adjustment Location :

【BD BOARD】 – Component side –



SECTION 5
EXPLANATION OF IC TERMINALS

IC101 TMP87CP64F-6254

Pin No.	Pin name	I/O	Description
1	Vss	–	GND
2	X OUT	O	Main system clock. (8MHz)
3	X IN	I	
4	$\overline{\text{RESET}}$	I	Reset signal input terminal.
5	X OUT	O	Sub system clock. (32.768kHz)
6	X IN	I	
7	GND	–	GND
8	$\overline{\text{AC OUT}}$	I	MICON AC DET.
9	COUNT SW	–	Not used. ("H" LEVEL)
10	INIT SW	–	Not used. ("H" LEVEL)
11	DISC SENS	–	Not used. ("H" LEVEL)
12	MID SENS	–	Not used. ("H" LEVEL)
13	CD XRST	O	CD Reset output. "L" : RESET
14	POWER	O	Power on output. "L" : ON
15	TA MUTE	O	AMP Mute output. "L" : MUTE
16	MPX	O	MPX Control output.
17	KEYCON LATCH	–	Not used. (OPEN)
18	VOL LATCH	O	Latch output to volume control. (TC9210P)
19	K. PON A	–	Not used. (OPEN)
20	K. PON B	–	Not used. (OPEN)
21	FUNC A	O	Function Select.
22	FUNC B	O	
23	FUNC C	–	Not used. (OPEN)
24	GEQ. LATCH	O	Latch output to gray control. (M62423FP)
25	RDS. INT	I	RDS DATA START Signal input.
26	SCOR (DSP)	I	Sub-code sync SO+SI detection input from DSP. (CXD2507AQ)
27	SENS	I	SENS input from DSP. (CXD2507AQ)
28	CD POWER	O	Power on output. "H" : ON
29	CDG LATCH	–	Not used. (OPEN)
30	DBFB	O	DBFB Select output. "H" : DBFB LOW "L" : DBFB HIGH
31	ST MUTE	O	TUNER MUTE Output.
32	ST CE	O	Chip enable output to tuner PLL IC (LC72130)
33	STEREO	I	FM/AM Stereo identification. "L" : STEREO
34	TUNED	I	FM/AM Tuning identification. "L" : TUNING
35	SQ-RDS-CLK	O	Sub-code Q data scanning clock output to DSP (CXD2507AQ), RDS clock output.
36	SQ-RDS-DI	I	Sub-code Q data input from DSP (CXD2507AQ), RDS data input.
37	RDS-RESET	O	RDS Reset signal output.
38	CLK	O	System clock output.
39	D. IN	I	Serial data input from tuner.
40	D. OUT	O	Serial data (COMN) output.
41	TABLE SENS	–	Not used. (OPEN)
42	REQ GM	I	Data transmission request input from system control.

FUNCTION	FUNC A	FUNC B
ST	L	L
CD	L	H
TC	H	L
AUX	H	H

Pin No.	Pin name	I/O	Description
43	REQ MG	O	Data transmission request output to system control.
44	CLK MG	O	Clock output for communications with system control.
45	D. GM	I	Serial data input form system control.
46	D. MG	O	Serial data output to system control.
47	RDY	I/O	System control Ready signal input/output. "L" : READY
48	VAREF	–	Power suppiy. (+5V)
49	VASS	–	GND
50	Vss	–	GND
51	VDD	–	Power supply (+5V)
52	URGENT. SIG	I	Not used. (+5V)
53	URGENT. STBY	I	Not used. (OPEN)
54	BUG Y/$\overline{N}$	–	Not used. (GND Connected)
55	ADJUSTOR	–	Not used. ("H" LEVEL)
56	ADJUST2	–	Not used. ("H" LEVEL)
57	MAGIC SPEED	–	Not used. ("H" LEVEL)
58	SPEC	–	Not used. ("H" LEVEL)
59	DIST	–	Not used. ("H" LEVEL)
60	SPEED	–	Not used. ("H" LEVEL)
61	BREAK	–	Not used. ("H" LEVEL)
62	B-PLAY	I	Deck-B PLAY Switch input. "H" : PLAY
63	B-SHUT	–	Not used. (+5V)
64	B-HALF	–	Not used. (+5V)
65	A-SHUT	–	Not used. (+5V)
66	A-PLAY	I	Deck-A PLAY Switch input. "H" : PLAY
67	A-HALF	I	Deck-A HALF SW input.
68	CAPM H/L	–	Not used. (OPEN)
69	CAPM ON/OFF	–	Not used. (OPEN)
70	TRIG H/L	–	Not used. (OPEN)
71	B TRG	–	
72	A TRG	–	
73	RELAY	O	Control output to REC/PB select switch. (IC602)
74	A/B	O	Dolby IC PB input Deck A/B select output. "L" : A, "H" : B
75	NORM/HIGH	–	Not used. (OPEN)
76	BIAS ON/OFF	O	BIAS Oscillation ON/OFF control. "H" : ON
77	RM ON/OFF	O	REC Mute output. "L" :MUTE
78	REC/PB	O	DOLBY IC REC/PLAY Select output. "H" : REC
79	NR	O	DOLBY ON/OFF Control output. "H" : ON
80	LM	O	LINE Mute output. "L" : MUTE
81	PASS	O	PASS Amplifier switch output to DOLBY IC. (IC401)
82	CDG. MUTE	–	Not used. (OPEN)
83	UP MOTOR	–	Not used. (OPEN)
84	DOWN MOTOR	–	Not used. (OPEN)
85	TABLE R	–	Not used. (OPEN)
86	TABLE L	–	Not used. (OPEN)
87	LOAD OUT	O	Loading motor (M903) Load out output.
88	LOAD IN	O	Loading motor (M903) Load in output.
89	DF-LATCH	O	Latch output to digital filter. (PCM1701U)

Pin No.	Pin name	I/O	Description
90	XLT	O	Serial data latch output to DSP. (CDX2507AQ)
91	FOCUS SW	O	High-region gain down output to focus servo. (CXA1782BQ)
92	HIGH DUBB	–	Not used. ("H" LEVEL)
93	TEST 1	–	Not used. ("H" LEVEL)
94	OUT SW	I	CD Tray output detection input.
95	IN SW	I	CD Tray input detection terminal.
96	UP SW	–	Not used. (GND)
97	PANEL SW	–	Not used. (GND)
98	CLOSE SW	–	Not used. (GND)
99	OPEN SW	–	Not used. (GND)
100	V_{DD}	–	Power supply. (+5V)

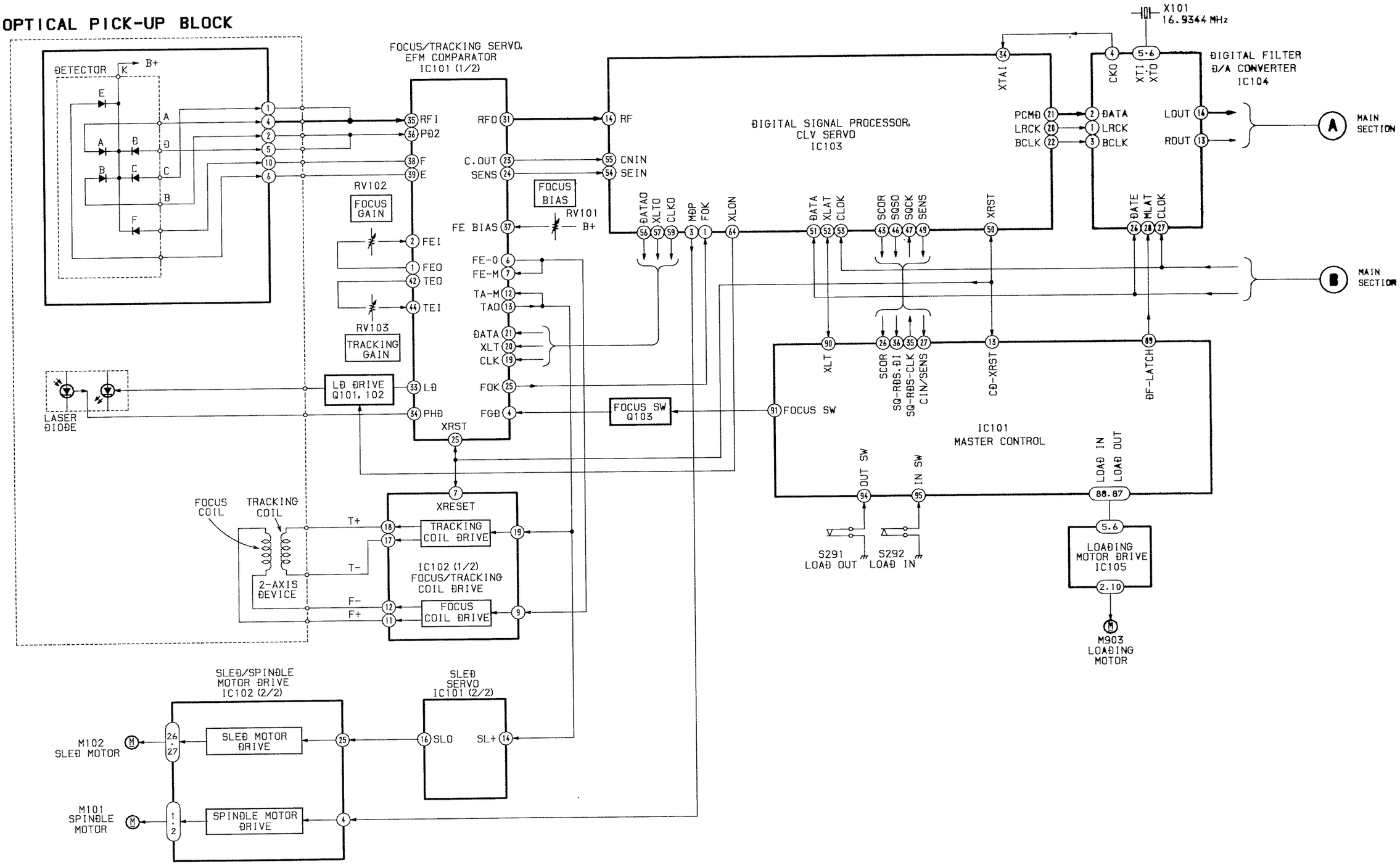
IC501 CXP82612-006Q

Pin No.	Pin name	I/O	Description
1	ENC1A	I	Volume encoder input terminal.
2	SIRCS	I	Remote commander signal input.
3	REQ. MG	I	Data transmission request input from master control.
4	REQ. GM	O	Data transmission request output to master control.
5	LED1	–	Not used. (OPEN)
6	LED2	–	Not used. (OPEN)
7	LED3	–	Not used. (OPEN)
8	LED4	–	Not used. (OPEN)
9	LED5	–	Not used. (OPEN)
10	RDY	I/O	Master control Ready signal input/output. "L" : Ready
11	SCK. IN	I	Clock output for communications with master control.
12	SD. IN	I	Serial data input from master control.
13	SD. OUT	O	Serial data output to master control.
14	LED6	O	REC, PAUSE LED Output.
15	LED7	O	ROCK, USER FILE LED Output.
16	LED8	O	JAZZ, POPS LED Output.
17	LED9	O	CLASSIC, DANCE LED Output.
18	LED10	O	TUNER LED Output.
19	LED11	O	CD, TIMER LED Output.
20	LED12	–	Not used. (OPEN)
21	LED13	–	Not used. (OPEN)
22	KEY1	I	Key input. (A/D Converter)
23	KEY2	I	
24	KEY3	I	
25	KEY4	–	Not used. (+5V)
26	BPF1	I	Not used. (+5V)
27	BPF2	I	
28	BPF3	I	
29	BPF4	I	
30	$\overline{RST}$	I	Reset signal input terminal.
31	X IN	I	System clock. (4MHz)
32	X OUT	O	
33	Vss	–	GND
34	AN1	O	LCD Drive.
35	AN2	O	
36	AN3	O	
37	AN4	O	
38	AN5	O	
39	AN6	O	
40	AN7	O	

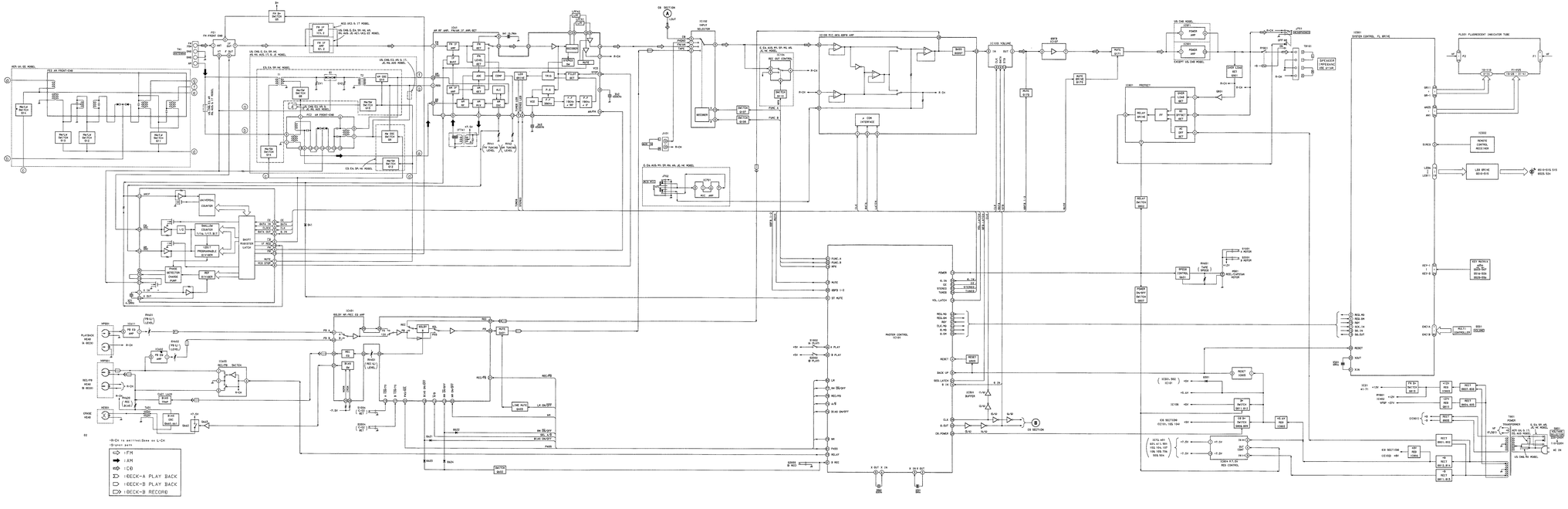
Pin No.	Pin name	I/O	Description
41	AN8	O	LCD Drive.
42	AN9	O	
43	AN10	O	
44	AN11	O	
45	AN12	O	
46	AN13	O	
47	AN14	O	
48	AN15	O	
49	AN16	O	
50	AN17	O	
51	AN18	O	
52	AN19	O	
53	AN20	O	
54	AN21	O	
55	AN22	O	
56	AN23	O	
57	AN24	O	
58	AN25	O	
59	GR1	O	
60	GR2	O	
61	GR3	O	
62	GR4	O	
63	GR6	O	
64	GR7	O	
65	GR8	O	
66	GR9	O	
67	GR10	O	
68	GR11	O	
69	GR12	O	
70	NC	–	Not used. (+5V)
71	VFDP	–	LCD drive – 25V power supply.
72	V_{DD}	–	Power supply. (+5V)
73	POWER KEY	–	Not used. (+5V)
74	EZ KEY	–	Not used. (+5V)
75	V_{DD}	–	Not used. (+5V)
76	LED14	–	Not used. (OPEN)
77	LED15	–	Not used. (OPEN)
78	ENC 2B	–	Not used. (+5V)
79	ENC 2A	–	Not used. (+5V)
80	ENC 1B	–	Volume ENCODER input terminal.

SECTION 6
DIAGRAMS

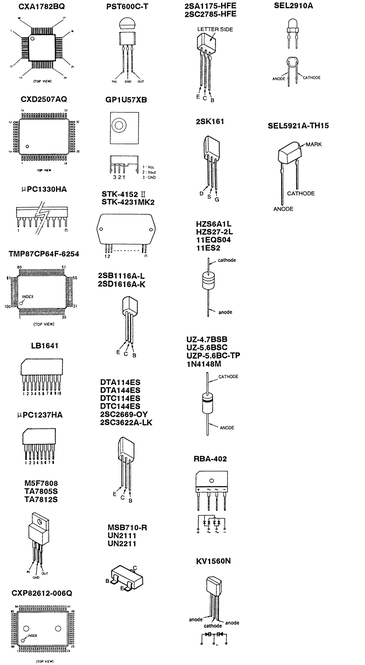
6-1. BLOCK DIAGRAM – CD SECTION –



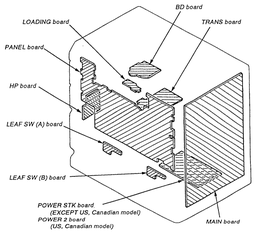
6-2. BLOCK DIAGRAM – MAIN SECTION –



● SEMICONDUCTOR LEAD LAYOUTS



6-3. CIRCUIT BOARD LOCATION



6-4. PRINTED WIRING BOARDS – MAIN SECTION –

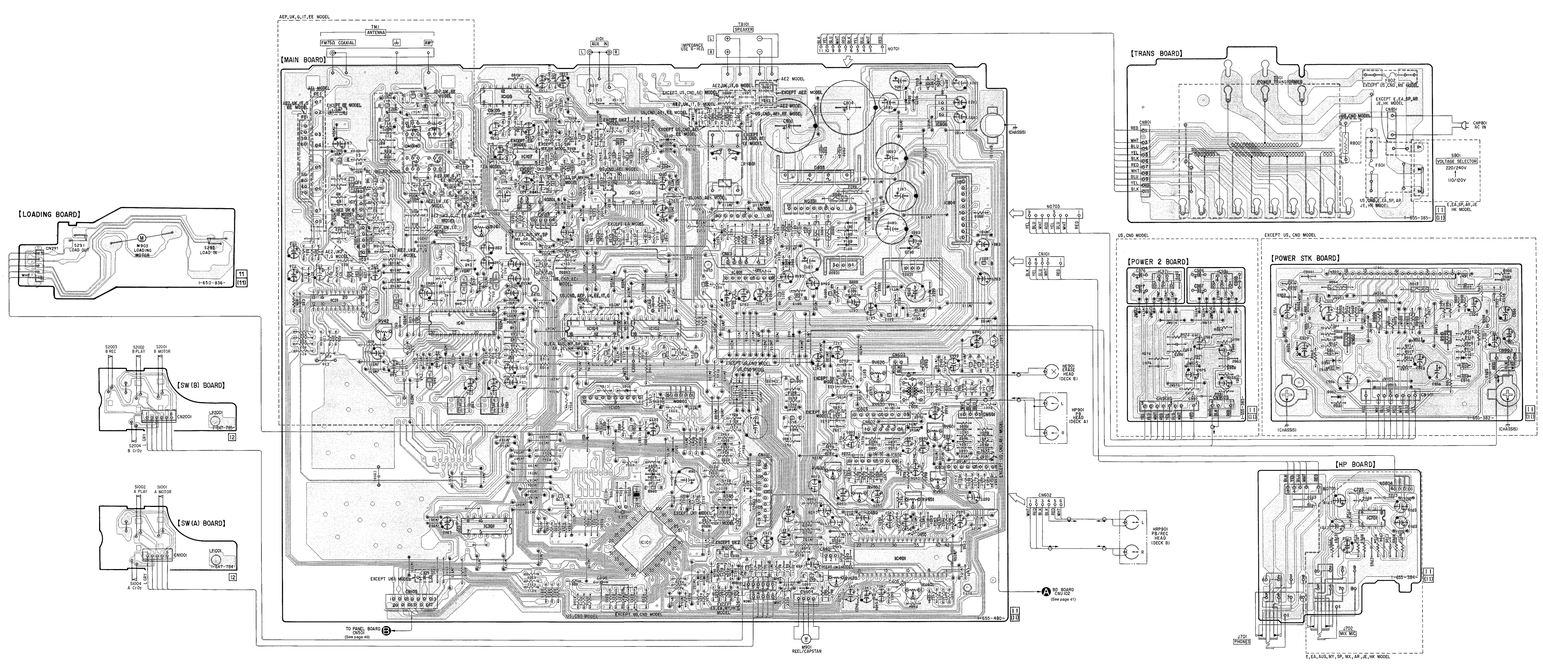
● Refer to page 24 for Semiconductor Lead Layouts.

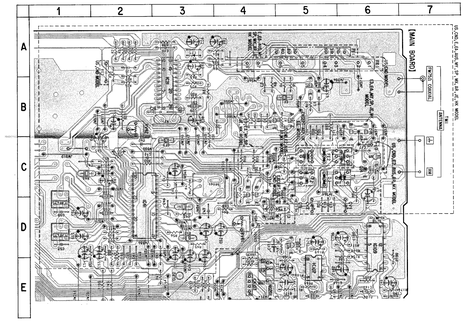
● SEMICONDUCTOR LOCATION

Ref. No.	Location	Ref. No.	Location
D1	C - 8	IC603	G - 15
D21	E - 9	IC701	I - 23
D41	F - 9	IC801	E - 13
D101	G - 11	IC802	E - 15
D102	D - 10	IC803	E - 14
D103	C - 12	IC804	D - 16
D104	H - 12	IC805	H - 11
D105	I - 12	IC806	B - 16
D106	I - 12	IC901	E - 23
D107	D - 11	IC971	E - 20
D301	H - 10	IC981	E - 21
D302	H - 12		
D304	H - 11		
D401	F - 14	Q1	D - 7
D601	J - 14	Q2	D - 7
		Q3	C - 6
D621	J - 12	Q8	B - 7
D622	J - 12	Q11	D - 8
D623	J - 13		
D624	J - 12	•Q12	C - 7
D801	E - 14	Q13	B - 7
		Q14	B - 8
D802	E - 13	Q107	F - 11
D803	C - 14	Q108	F - 12
D804	B - 15		
D805	B - 16	Q110	F - 11
D806	B - 16	Q170	I - 10
		Q171	D - 10
D807	D - 15	Q172	C - 9
D808	D - 15	Q173	C - 10
D809	D - 12		
D810	D - 12	Q174	C - 10
D811	D - 14	Q203	I - 11
		Q401	G - 14
D812	E - 14	Q403	I - 13
D813	D - 14	Q451	G - 14
D814	D - 14		
D815	H - 11	Q601	J - 14
D819	H - 11	Q602	J - 12
		Q650	G - 17
D823	E - 15	Q661	G - 16
D824	E - 16	Q662	G - 16
D901	F - 24		
D902	G - 23	Q663	G - 17
D903	F - 22	Q801	E - 12
		Q802	E - 13
D951	G - 22	Q807	E - 17
		Q808	E - 15
IC1	D - 7	Q809	E - 14
IC2	E - 7	Q810	B - 16
IC21	E - 6	Q811	F - 16
IC43	F - 8	Q812	F - 15
IC101	I - 11	Q813	E - 14
IC102	F - 11	Q901	F - 25
IC104	F - 10	Q951	F - 22
IC105	G - 11		
IC107	C - 9		
IC108	D - 11		
IC109	B - 9		
IC301	I - 9		
IC401	J - 15		
IC601	H - 16		
IC602	H - 15		

Note:

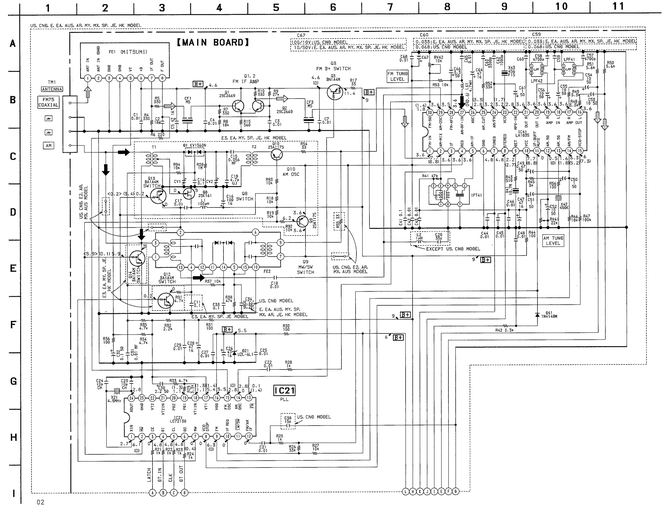
- O— : parts extracted from the component side.
- ▒▒ : Pattern on the side which is seen.
- Abbreviations
  CND : Canadian
  G : German
  IT : Italian
  EE : East European
  AUS : Australian
  EA : Saudi Arabia
  AR : Argentine
  HK : Hong Kong
  MX : Mexican
  MY : Malaysia
  SP : Singapore





● SEMICONDUCTOR LOCATION

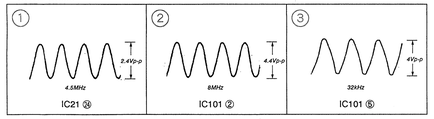
Ref. No.	Location
D1	C - 5
D21	A - 3
D41	D - 3
IC21	B - 3
IC41	D - 2
Q1	B - 5
Q2	B - 4
Q3	B - 5
Q8	C - 6
Q9	C - 4
Q10	C - 4
Q12	B - 6
Q13	B - 6
Q14	C - 6



6-5. SCHEMATIC DIAGRAM – MAIN SECTION –

● Refer to page 45 for IC Block Diagrams.

● WAVEFORMS



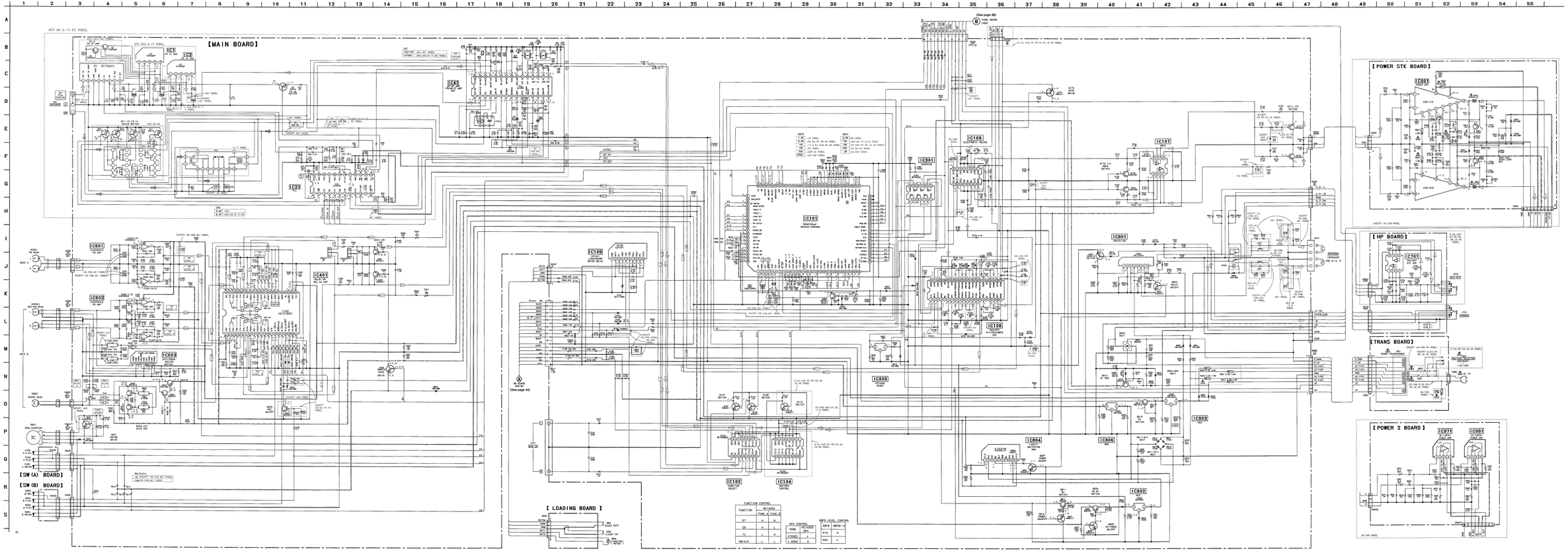
Note :

- All capacitors are in μ F unless otherwise noted. pF: μ μ F
  50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and ¼W or less unless otherwise specified.
- △ : internal component.

Note :
The components identified by mark △ or dotted line with mark △ are critical for safety.
Replace only with part number specified.

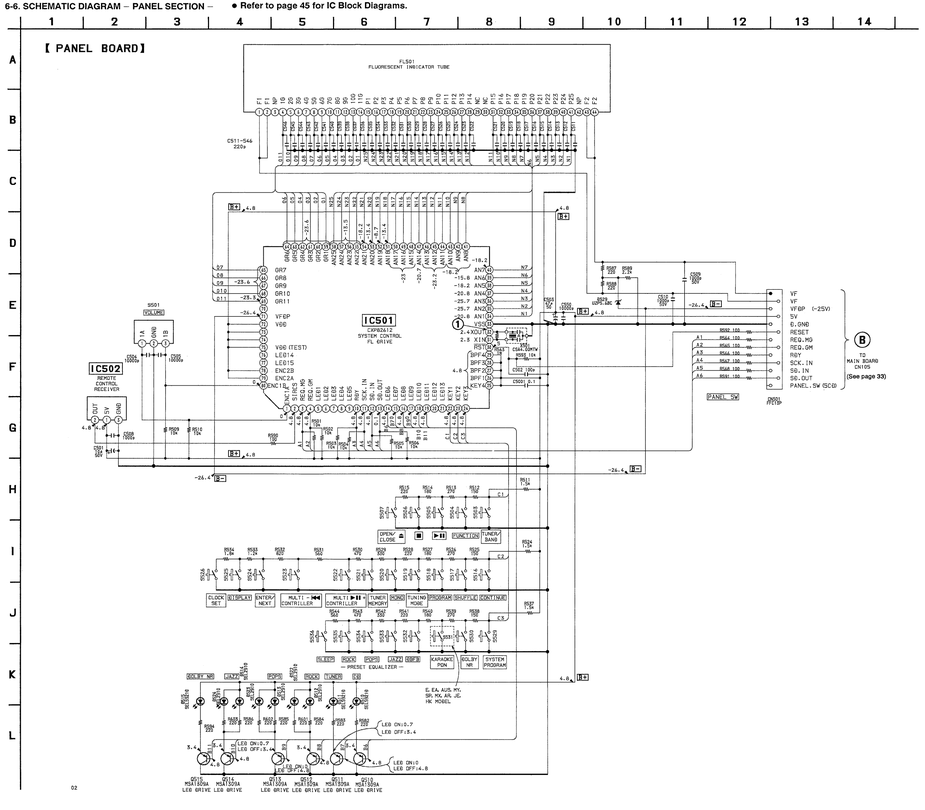
Note :
Les composants identifiés par une marque △ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

- ═══ : B+ Line
- ▭ ▭ ▭ : B− Line
- ▭ : adjustment for repair.
- Voltage and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no mark : FM
  ( ) : AM
  < > : PLAY
  [ ] : REC (DECK B)
- Voltages are taken with a VOM (Input impedance 10M Ω). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  ⇨ : FM ⇨ : PB (DECK A) ⇨ : CD
  ⇨ : AM ⇨ : PB (DECK B) ⇨ : MIC
  ⇨ : REC (DECK B)
- Abbreviations
  CND : Canadian
  G : German
  IT : Italian
  EE : East European
  AUS : Australian
  EA : Saudi Arabia
  AR : Argentine
  HK : Hong Kong
  MX : Mexican
  MY : Malaysia
  SP : Singapore

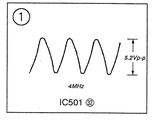


6-6. SCHEMATIC DIAGRAM – PANEL SECTION –

● Refer to page 45 for IC Block Diagrams.



● WAVEFORM



Note :

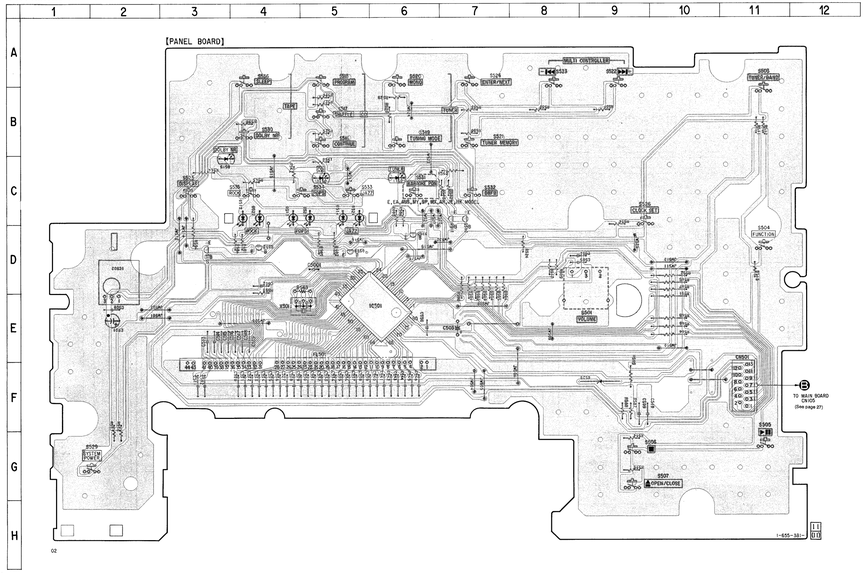
- All capacitors are in μ F unless otherwise noted. pF: μ μ F 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and ¼W or less unless otherwise specified.
- △ : internal component.
- B+ : B+ Line
- B− : B− Line
- Voltage and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no mark : FM
- Voltages are taken with a VOM (Input impedance 10M Ω). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.

6-7. PRINTED WIRING BOARDS – PANEL SECTION –

● Refer to page 24 for Semiconductor Lead Layouts.

● SEMICONDUCTOR LOCATION

Ref. No.	Location
D510	C - 5
D511	C - 6
D512	C - 4
D513	C - 4
D514	C - 5
D515	C - 3
D522	C - 4
D523	C - 5
D524	C - 5
D529	F - 9
IC501	E - 6
IC502	D - 2
Q510	C - 7
Q511	C - 7
Q512	D - 4
Q513	D - 5
Q514	D - 6
Q515	D - 3

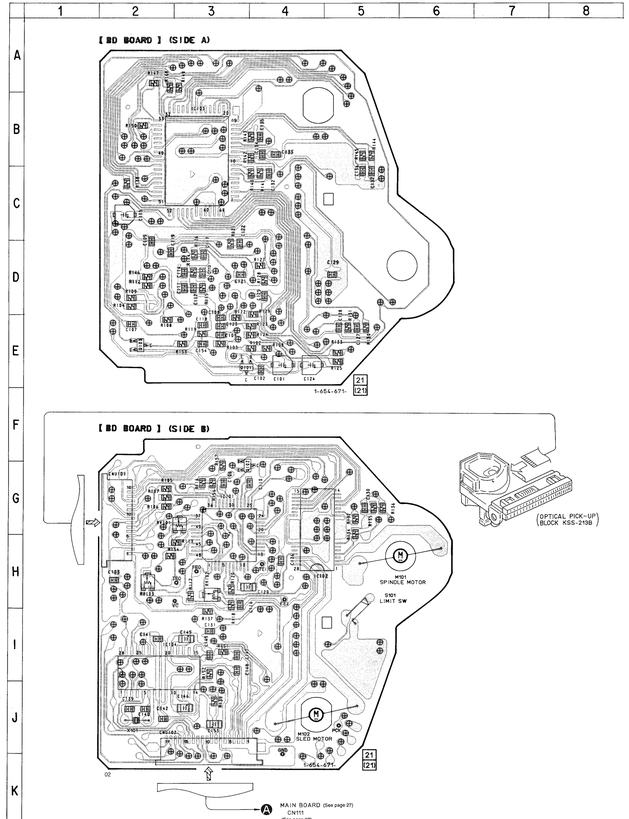


Note:

- ○— : parts extracted from the component side.
- ▨ : Pattern on the side which is seen.

6-8. PRINTED WIRING BOARDS – BD SECTION –

● Refer to page 24 for Semiconductor Lead Layouts.



● SEMICONDUCTOR LOCATION

Ref. No.	Location
IC101	H-3
IC102	H-4
IC103	B-3
IC104	I-2
Q101	E-3
Q102	G-3
Q103	E-2

Note:

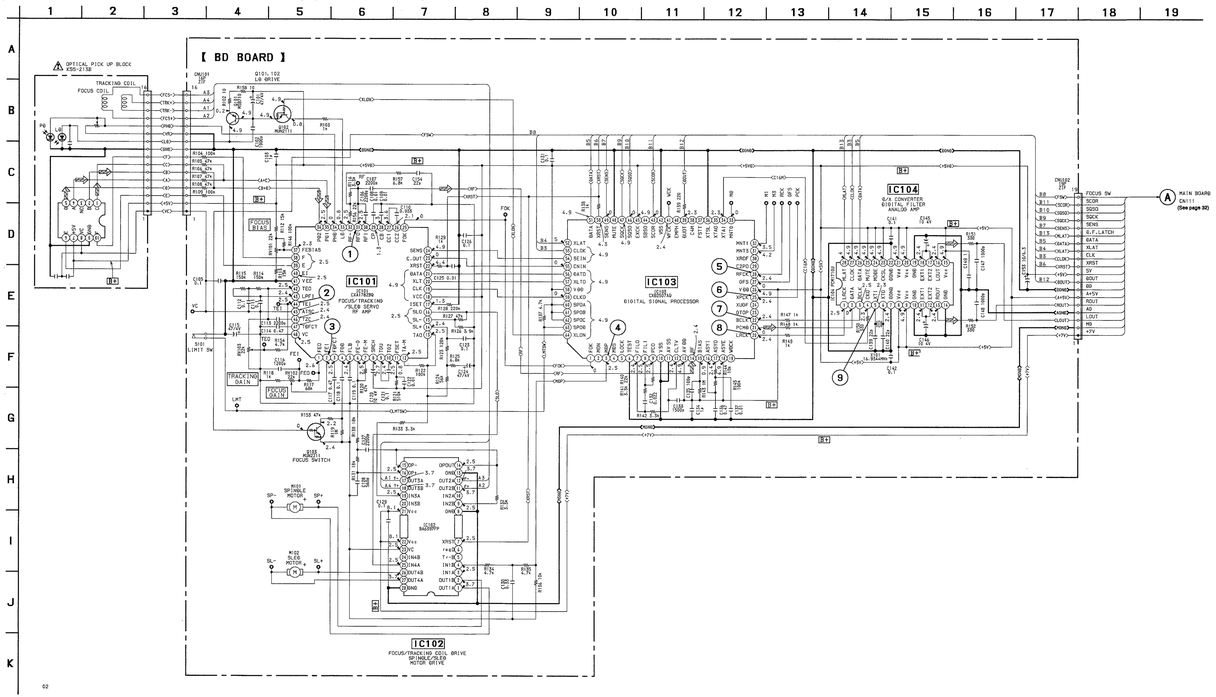
- ○— : parts extracted from the component side.
- ▒▒▒ : Pattern from the side which enables seeing. (The other layers' patterns are not indicated)

Caution :

Pattern face side : (Conductor Side) Parts on the pattern face side seen from the pattern face are indicated.
Parts face side : (Component side) Parts on the parts face side seen from the parts face are indicated.

6-9. SCHEMATIC DIAGRAM – BD SECTION –

● Refer to page 45 for IC Block Diagrams.



Note :

- All capacitors are in μ F unless otherwise noted. pF: μ μ F 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/10W or less unless otherwise specified.

Note :	Note :
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Note :

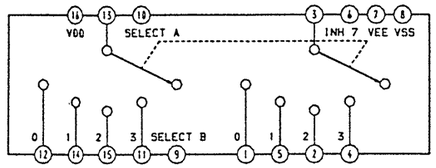
- B+ : B+ Line
- ▭ : adjustment for repair.
- Voltage and waveforms are dc with respect to ground under no-signal (CD) conditions.
  no mark : STOP (CD)
- Voltages are taken with a VOM (Input impedance 10M Ω). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  ⇨ : CD

● WAVEFORMS

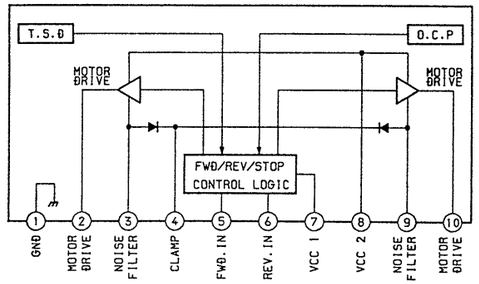
① IC101 ㉛ — 1.3Vp-p
② IC101 ㉔ — 8mVp-p
③ IC101 ② — 20mVp-p
④ IC103 ③ — 2.4Vp-p, 7.5 μsec
⑤ IC103 ㉘ — 5Vp-p, 137 μsec
⑥ IC103 ㉕ — 5.4Vp-p, 232 μsec
⑦ IC101 ⑰ — 5Vp-p, 470 μsec
⑧ IC103 ⑳ — 5Vp-p, 23 μsec

6-10. IC BLOCK DIAGRAMS

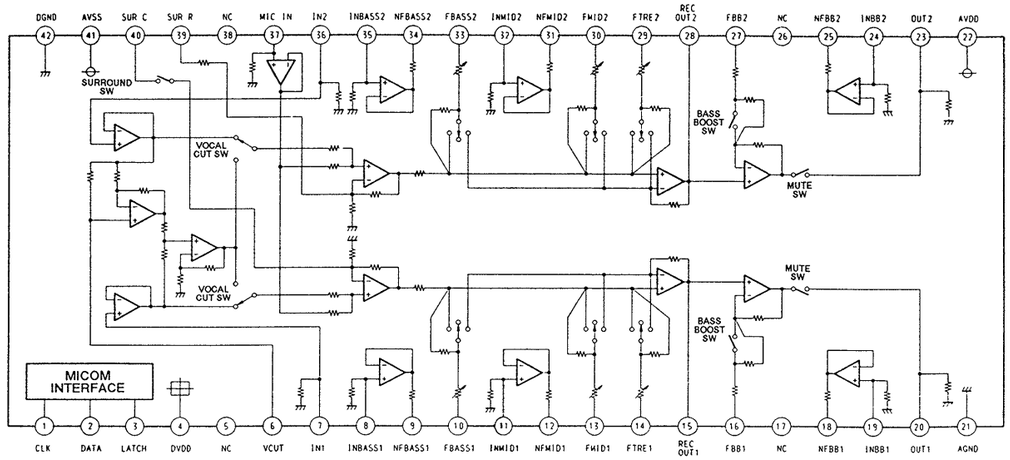
IC102 MC14052BCP



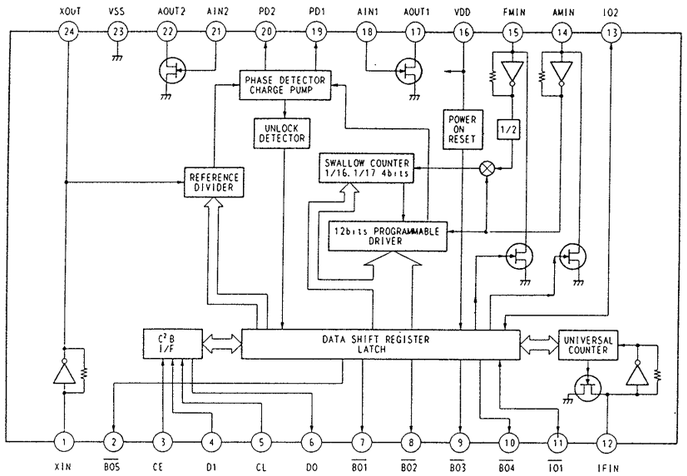
IC402 LB1641



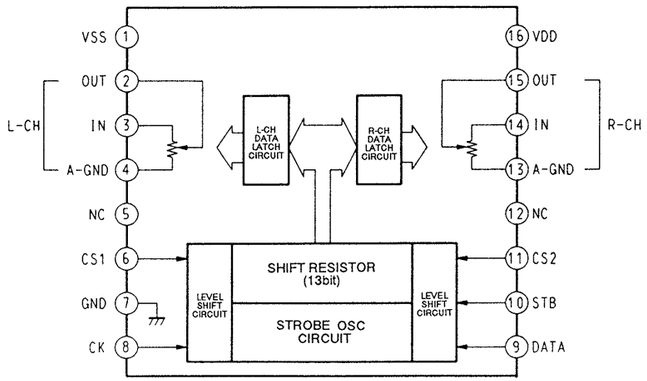
IC108 M62423FP



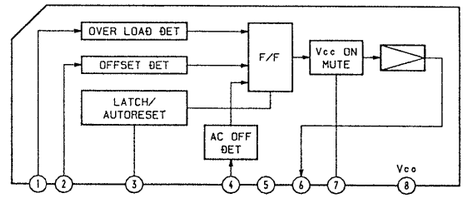
IC21 LC72130



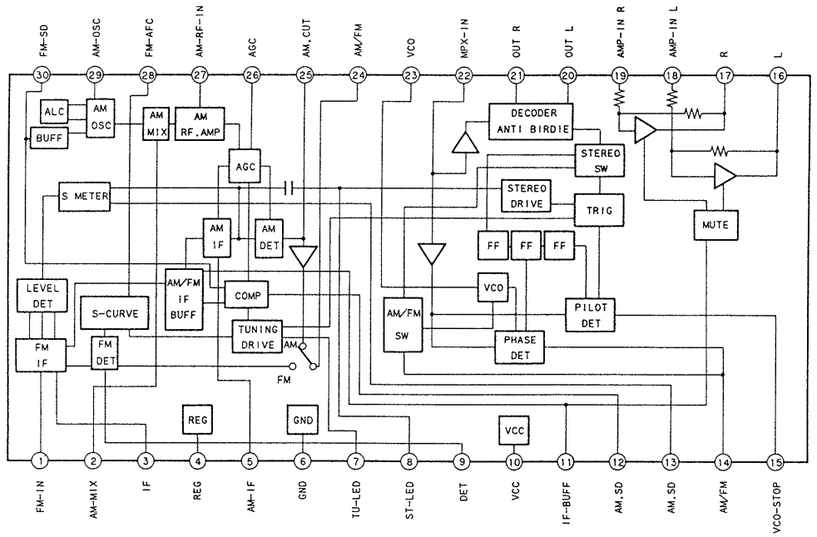
IC109 TC9210P



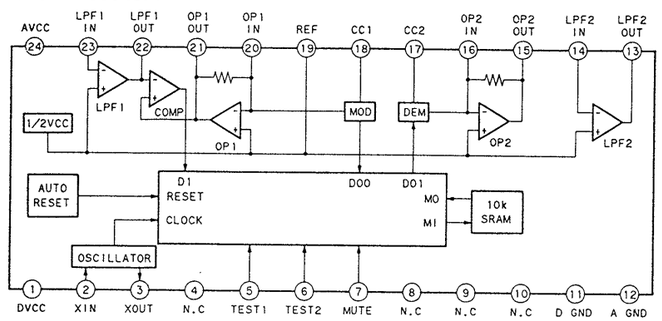
IC801 μPC1237HA



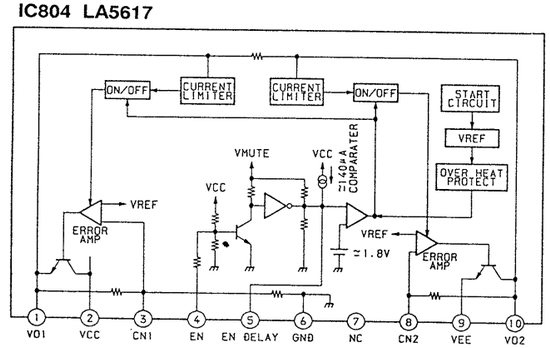
IC41 LA1835



IC701 M65843FP

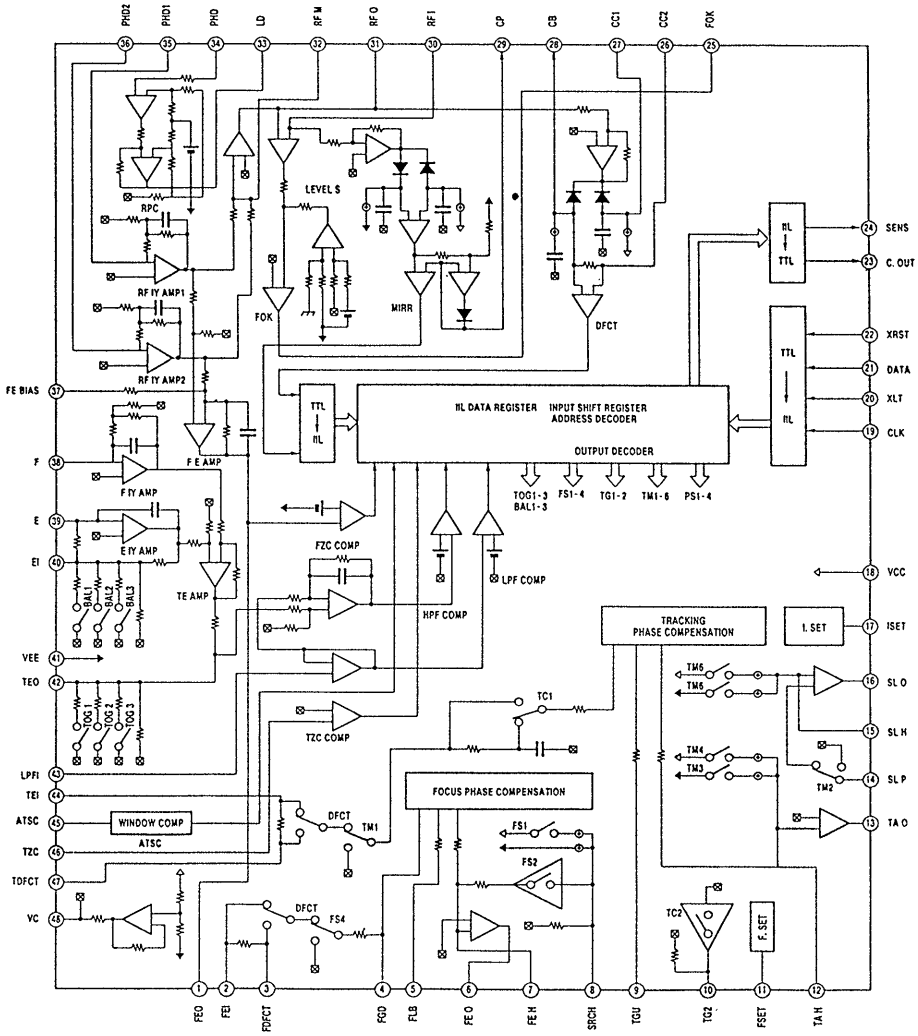


IC804 LA5617

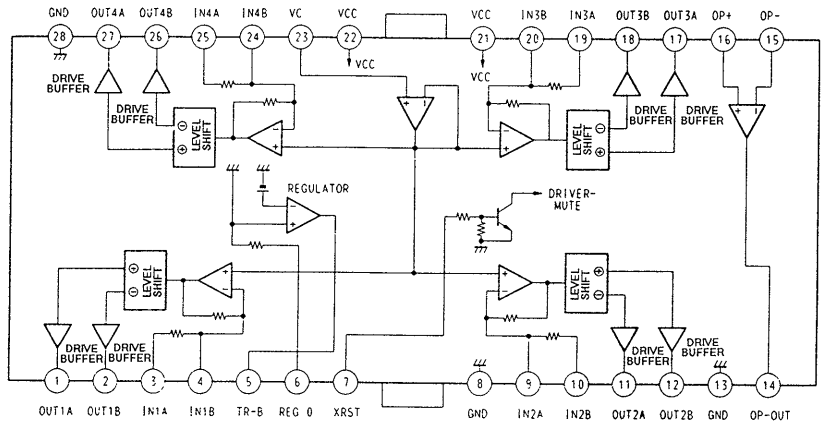


– BD SECTION –

IC101 CXA1782BQ



IC102 BA6397FP-T1



SECTION 7
EXPLODED VIEWS

NOTE :

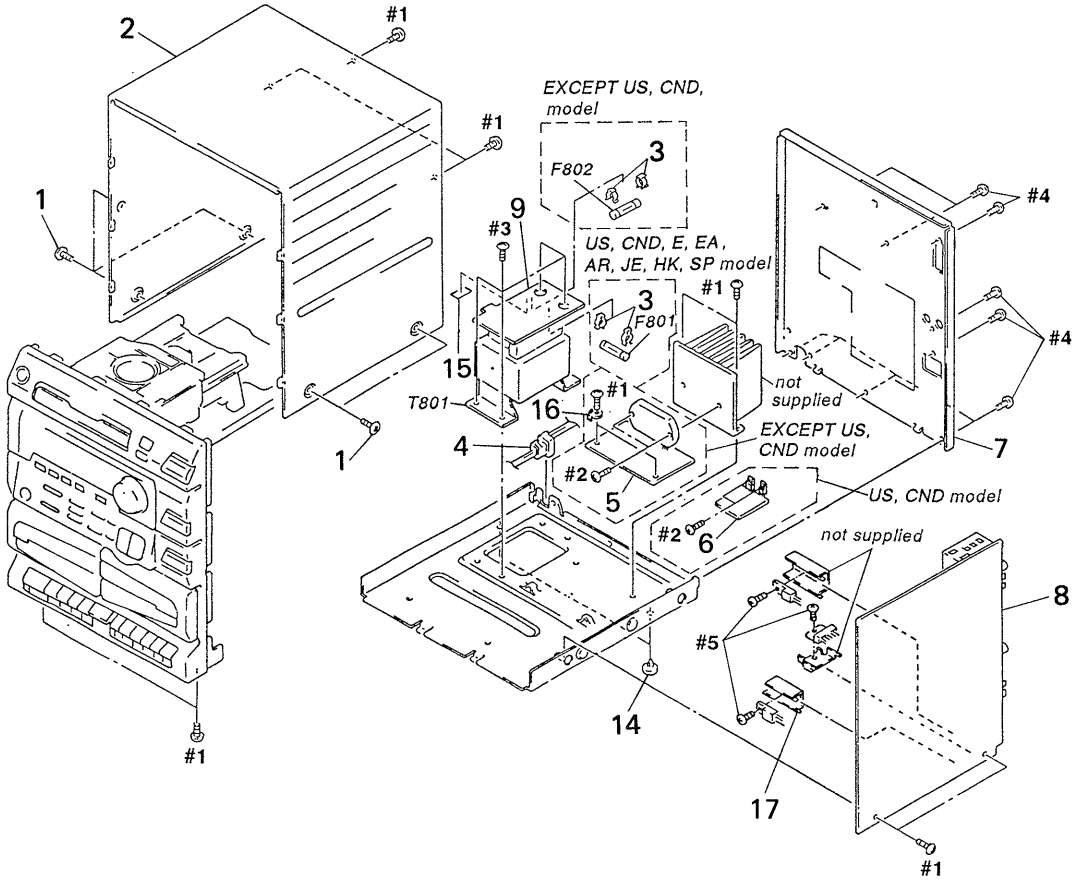
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked " * "are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list and accessories and packing materials are given in the last of this parts list.
- Abbreviation

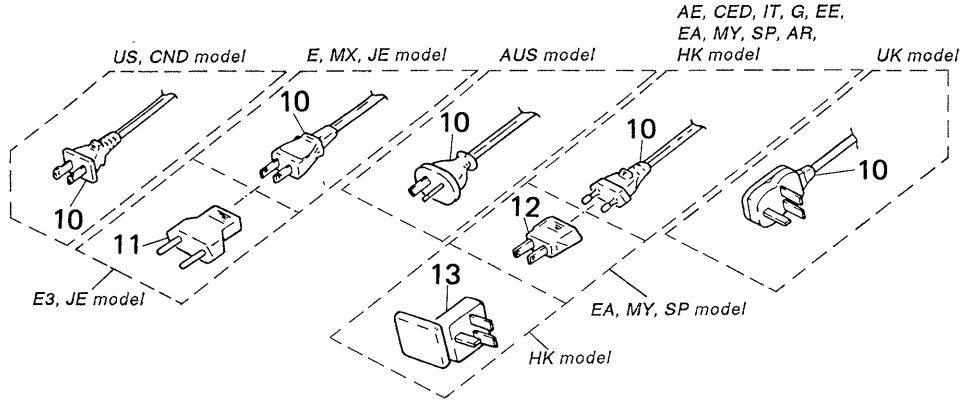
CND	: Canadian	MY	: Malaysia
IT	: Italian	SP	: Singapore
G	: German	MX	: Mexican
EE	: East European	AR	: Argentine
EA	: Saudi Arabia	JE	: Tourist
AUS	: Australian	HK	: Hong Kong

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

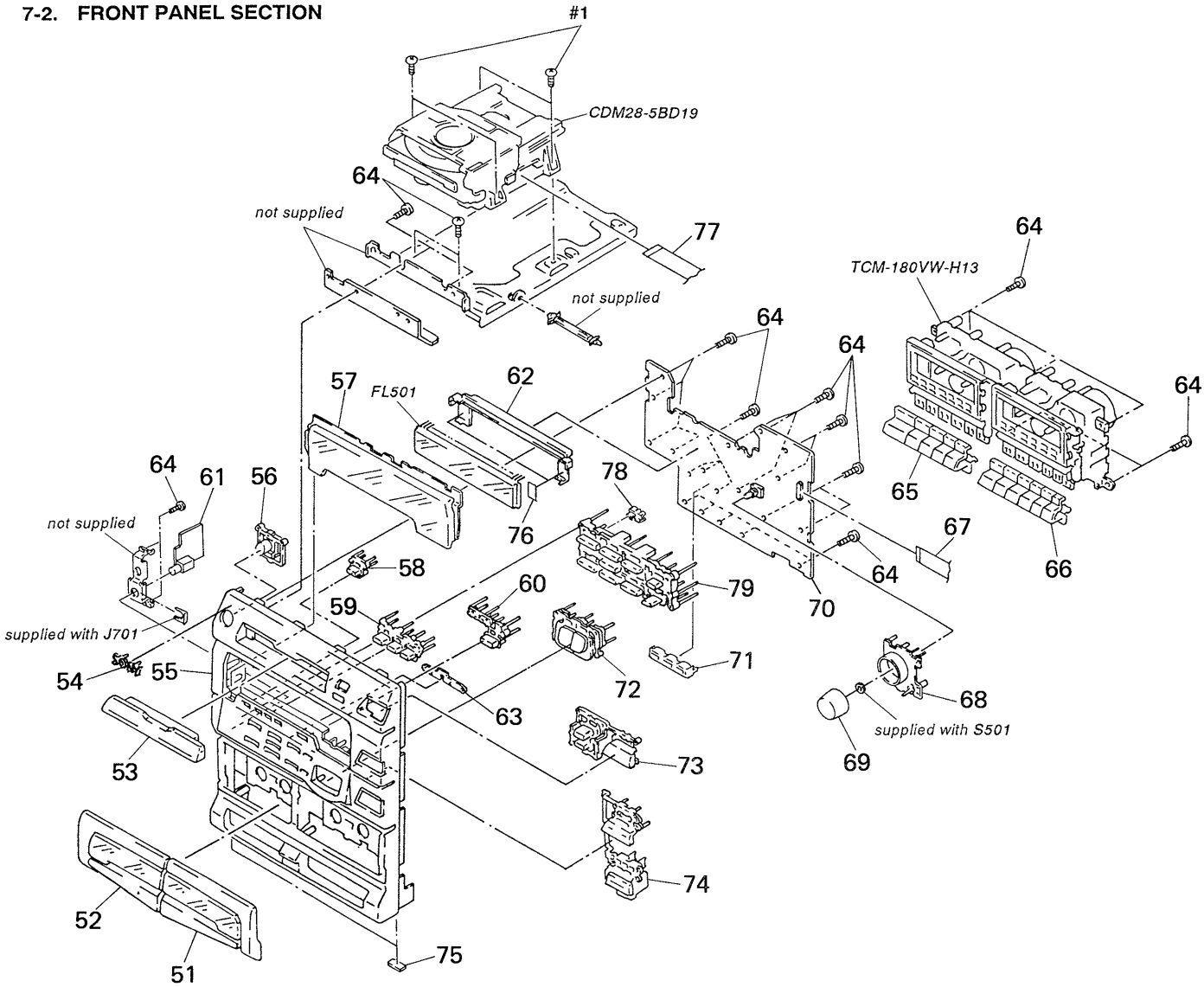
7-1. CHASSIS SECTION





Ref. No.	Part No.	Description	Remark
1	3-363-099-01	SCREW (CASE 3 TP2)	
* 2	4-971-899-51	CASE	
3	1-533-217-31	HOLDER, FUSE (US, CND, E, EA, SP, AR, JE, HK)	
* 4	3-703-244-00	BUSHING (2104), CORD (EXCEPT E)	
* 4	3-703-571-01	BUSHING (2104), CORD (E)	
* 5	A-4377-402-A	POWER STK BOARD, COMPLETE (E, EA, AUS, MY, SP, MX, AR, JE, HK)	
* 5	A-4377-412-A	POWER STK BOARD, COMPLETE (AE1, EE)	
* 5	A-4377-413-A	POWER STK BOARD, COMPLETE (AE2, UK, IT, G)	
* 6	1-655-383-11	POWER 2 BOARD (US, CND)	
* 7	4-972-055-01	PANEL, BACK (AE1)	
* 7	4-972-055-81	PANEL, BACK (AE2)	
* 7	4-972-055-21	PANEL, BACK (IT)	
* 7	4-972-055-31	PANEL, BACK (G)	
* 7	4-972-055-41	PANEL, BACK (UK2)	
* 7	4-972-055-51	PANEL, BACK (EE)	
* 7	4-972-055-61	PANEL, BACK (US)	
* 7	4-972-055-71	PANEL, BACK (CND)	
7	4-972-055-91	PANEL, BACK (UK1)	
* 7	4-972-056-01	PANEL, BACK (E, AR, JE)	
* 7	4-972-056-41	PANEL, BACK (SP)	
* 7	4-972-056-51	PANEL, BACK (HK)	
* 7	4-972-056-61	PANEL, BACK (MX)	
* 7	4-972-056-11	PANEL, BACK (EA)	
* 7	4-972-056-21	PANEL, BACK (AUS)	
* 7	4-972-056-31	PANEL, BACK (MY)	
* 8	A-4377-399-A	MAIN BOARD, COMPLETE (UK2)	
* 8	A-4377-400-A	MAIN BOARD, COMPLETE (US, CND)	
* 8	A-4377-405-A	MAIN BOARD, COMPLETE (E2, MX, AR)	
* 8	A-4377-406-A	MAIN BOARD, COMPLETE (E3, MY, SP, HK)	
* 8	A-4377-407-A	MAIN BOARD, COMPLETE (EA)	
* 8	A-4377-408-A	MAIN BOARD, COMPLETE (JE)	
* 8	A-4377-409-A	MAIN BOARD, COMPLETE (AUS)	
* 8	A-4377-417-A	MAIN BOARD, COMPLETE (AE1)	
* 8	A-4377-418-A	MAIN BOARD, COMPLETE (EE)	
* 8	A-4377-419-A	MAIN BOARD, COMPLETE (AE2)	
* 8	A-4377-420-A	MAIN BOARD, COMPLETE (G)	
* 8	A-4377-421-A	MAIN BOARD, COMPLETE (IT)	
8	A-4377-948-A	MAIN BOARD, COMPLETE (UK1)	
* 9	1-655-385-11	TRANS BOARD	
⚠10	1-575-651-11	CORD, POWER (AEP, IT, G, EE, EA, MY, SP, AR, HK)	
⚠10	1-575-653-11	CORD, POWER (E, MX, JE)	
⚠10	1-690-608-11	CORD, POWER (AUS)	
⚠10	1-690-609-21	CORD, POWER (US, CND)	
⚠10	1-751-520-21	CORD, POWER (UK)	
⚠11	1-569-007-11	ADAPTER, CONVERSION 2P (E3, JE)	
⚠12	1-569-008-11	ADAPTER, CONVERSION 2P (EA, MY, SP)	
⚠13	1-770-019-11	ADAPTOR, CONVERSION (HK)	
14	4-965-822-01	FOOT	
* 15	3-701-946-12	LABEL, FUSE RATING (US, CND)	
* 16	4-942-204-01	PLATE, GROUND (EXCEPT US, CND)	
* 17	4-941-237-11	HEAT SINK	
⚠F801	1-576-105-11	FUSE 2.5A 250V (US, CND)	
⚠F801	1-532-286-00	FUSE 2.5A 250V (E, EA, SP, AR, JE, HK)	
⚠F802	1-532-299-00	FUSE 5A 250V (EXCEPT US, CND, MX)	
⚠T801	1-427-798-11	TRANSFORMER, POWER (US, CND)	
⚠T801	1-427-799-11	TRANSFORMER, POWER (AEP, UK, IT, G, EE)	
⚠T801	1-427-800-11	TRANSFORMER, POWER (E, EA, AUS, MY, SP, MX, AR, JE, HK)	

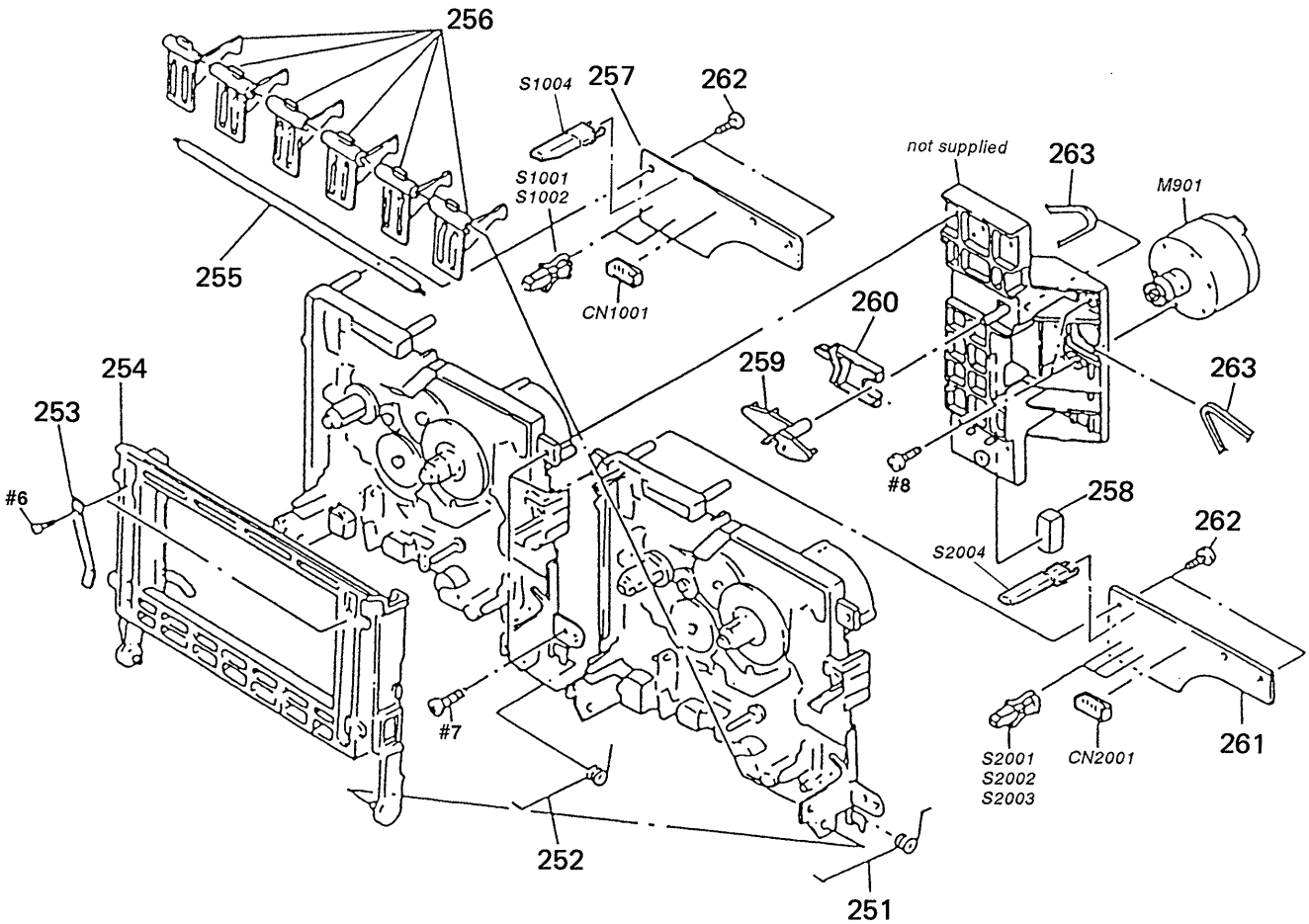
7-2. FRONT PANEL SECTION



Ref. No.	Part No.	Description	Remark
51	X-4945-699-1	LID (A) ASSY, CASSETTE	
52	X-4945-700-1	LID (B) ASSY, CASSETTE	
53	4-971-955-01	PANEL, LOADING	
54	4-962-708-11	EMBLEM (4-A), SONY	
55	4-972-041-01	PANEL, FRONT (AEP, UK, IT, G, EE)	
55	4-972-041-11	PANEL, FRONT (E, EA, AUS, MY, SP, MX, AR, JE, HK)	
55	4-972-041-21	PANEL, FRONT (US, CND)	
56	4-971-913-01	BUTTON (POWER)	
57	4-972-042-01	WINDOW (FLD), INDICATION	
58	4-972-047-01	BUTTON (DISP)	
59	4-972-044-01	BUTTON (EQ)	
60	4-972-046-01	BUTTON (DBFB) (US, CND)	
60	4-972-046-11	BUTTON (DBFB) (EXCEPT US, CND)	
* 61	1-655-384-11	HP BOARD	
* 62	4-970-711-01	HOLDER, FL TUBE	
63	4-972-050-01	INDICATOR (FUNC)	
64	4-951-620-01	SCREW (2.6×8), +BVTP	
65	4-971-953-01	BUTTON (MD-A)	

Ref. No.	Part No.	Description	Remark
66	4-971-954-01	BUTTON (MD-B)	
67	1-590-036-31	WIRE, FLAT TYPE (13 CORE)	
68	4-972-043-01	BRACKET (VOL)	
69	4-970-844-11	KNOB (VOL) (UK1, MX, AR)	
69	4-973-774-01	KNOB (VOL) (EXCEPT UK1, MX, AR)	
* 70	A-4377-401-A	PANEL BOARD, COMPLETE (E, EA, AUS, MY, SP, MX, AR, JE, HK)	
* 70	A-4377-410-A	PANEL BOARD, COMPLETE (US, CND, AE1, EE)	
* 70	A-4377-411-A	PANEL BOARD, COMPLETE (AE2, UK, IT, G)	
* 71	4-972-053-01	HOLDER, LED	
72	4-972-048-01	BUTTON (+/-)	
73	4-972-051-01	BUTTON (CD)	
74	4-972-052-01	BUTTON (F/T)	
75	4-930-336-61	FOOT (FELT)	
76	4-932-810-21	CUSHION (FL)	
77	1-654-751-11	PC BOARD, FLEXIBLE	
78	4-972-049-01	INDICATOR (DOLBY)	
79	4-972-045-01	BUTTON (CONT)	
FL501	1-517-364-11	INDICATOR TUBE, FLUORESCENT	

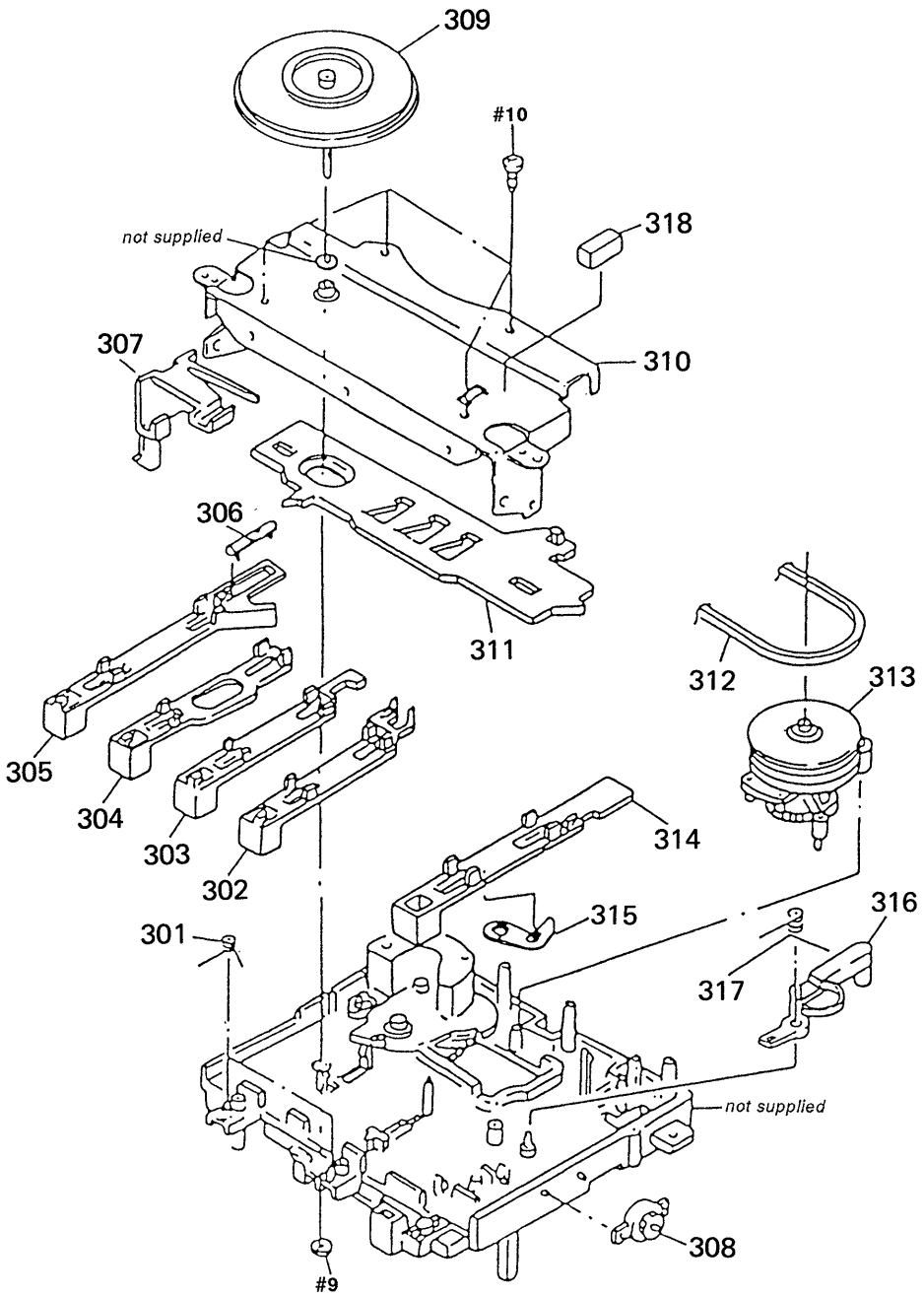
7-3. MECHANISM DECK SECTION-1 (TCM-180VWR-H13)



Ref. No.	Part No.	Description	Remark
251	3-358-287-01	SPRING (LOADING A), TORSION	
252	3-358-229-01	SPRING (LOADING), TORSION	
253	3-358-209-01	SPRING (CASSETTE HOLDER), LEAF	
254	3-358-266-02	HOLDER, CASSETTE	
255	3-371-917-01	SHAFT (BUTTON SHAFT 4)	
256	3-369-335-01	LEVER (BUTTON BASE F)	
* 257	1-647-784-11	SW (A) BOARD	
* 258	3-358-289-01	SPACER (VIBRATION PROOF MAT)	
259	3-358-203-01	LEVER (TRIGGER)	
260	3-358-202-01	SLIDER (TRIGGER)	
* 261	1-647-785-11	SW (B) BOARD	
262	4-951-620-01	SCREW (2.6×8), +BVTP	

Ref. No.	Part No.	Description	Remark
263	3-364-777-01	BELT (WH)	
* CN1001	1-568-943-11	PIN, CONNECTOR 5P	
* CN2001	1-568-944-11	PIN, CONNECTOR 6P	
M901	X-3362-377-1	MOTOR (WH) ASSY (REEL/CAPSTAN)	
S1001	1-571-736-11	SWITCH, LEAF (A MOTOR)	
S1002	1-571-736-11	SWITCH, LEAF (A PLAY)	
S1004	1-692-997-11	SWITCH, LEAF (A CrO_2)	
S2001	1-571-736-11	SWITCH, LEAF (B MOTOR)	
S2002	1-571-736-11	SWITCH, LEAF (B PLAY)	
S2003	1-571-736-11	SWITCH, LEAF (B REC)	
S2004	1-692-997-11	SWITCH, LEAF (B CrO_2)	

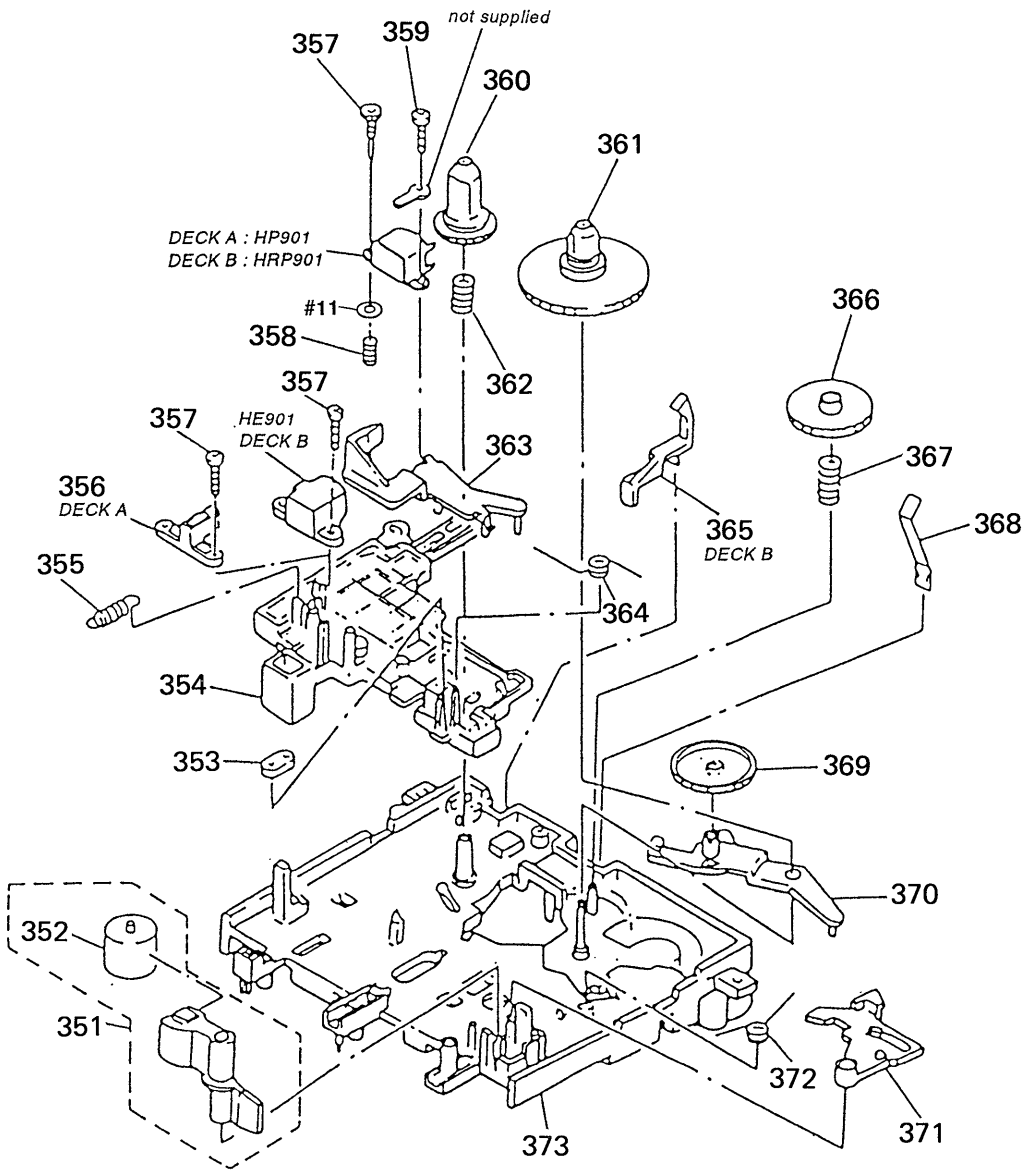
7-4. MECHANISM DECK SECTION-2
(TCM-180VWR-H13)



Ref. No.	Part No.	Description	Remark
301	3-358-232-01	SPRING (S-P F-R), TORSION	
302	3-358-258-01	SLIDER (REW)	
303	3-358-257-01	SLIDER (FF)	
304	3-358-256-01	SLIDER (STOP/EJECT)	
305	3-358-260-01	SLIDER (PAUSE)	
* 306	3-358-226-01	LEVER (PAUSE LEVER)	
* 307	3-358-261-02	SLIDER (HOLDER LOCK)	
308	3-319-224-51	DAMPER, SMALL	
309	X-3358-205-1	FLYWHEEL (A) ASSY (DECK B)	
309	X-3366-859-1	FLYWHEEL (D) ASSY (DECK A)	

Ref. No.	Part No.	Description	Remark
310	X-3365-582-1	BRACKET (D) ASSY	
* 311	3-358-249-01	SLIDER (LOCK PLATE)	
312	3-358-230-01	BELT (A1)	
313	X-3358-202-1	LEVER (FR ARM) ASSY	
314	3-358-259-01	SLIDER (REC)	
* 315	3-358-204-01	LEVER (REC SAFETY)	
316	3-358-286-01	LEVER (MOTOR LEVER)	
317	3-358-214-01	SPRING (LOCK), TORSION (DECK A)	
317	3-358-233-01	SPRING (REC-LOCK), TORSION (DECK B)	
* 318	3-358-289-01	SPACER (VIBRATION ROOF MAT) (DECK B)	

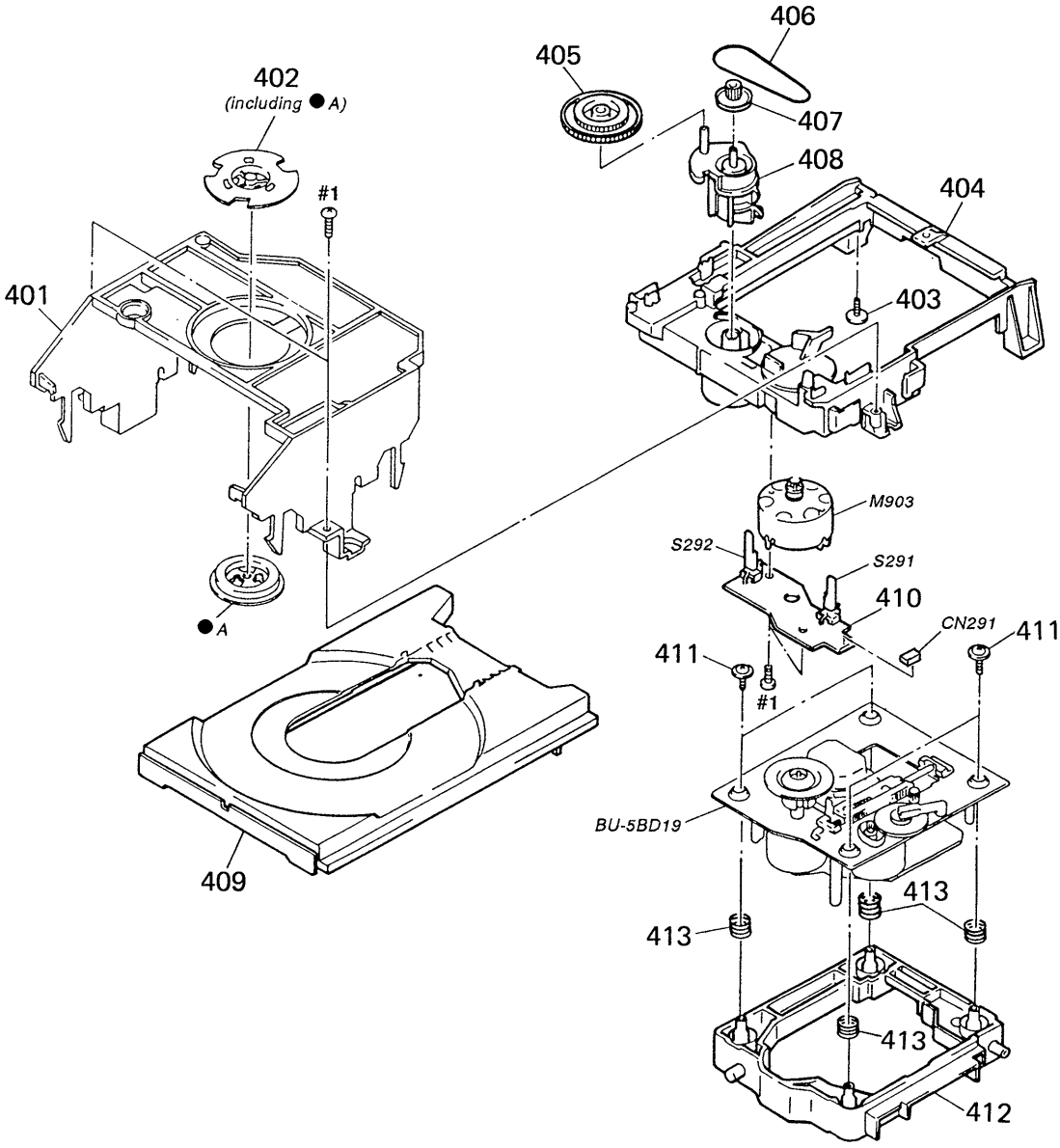
7-5. MECHANISM DECK SECTION-3 (TCM-180VWR-H13)



Ref. No.	Part No.	Description	Remark
351	X-3358-204-1	LEVER (PINCH LEVER) ASSY	
352	3-578-143-11	PINCH ROLLER	
* 353	3-358-215-01	BUSHING (WIRE KIT RETAINER)	
354	3-358-265-01	SLIDER (HEAD PC BOARD A)	
355	3-358-217-01	SPRING, TENSION	
* 356	3-363-931-01	GUIDE, TAPE	
357	3-358-288-11	SCREW (T), AZIMUTH	
358	3-358-234-01	SPRING (AZIMUTH), COMPRESSION	
359	3-358-288-01	SCREW (T), AZIMUTH	
360	3-358-248-01	GEAR (SUPPLY REEL)	
361	X-3358-203-1	TABLE (T) ASSY, REEL	
362	3-358-208-01	SPRING (SUPPLY), COMPRESSION	
* 363	3-358-251-01	LEVER (TENSION DETECTION ARM)	

Ref. No.	Part No.	Description	Remark
364	3-358-228-01	SPRING, TORSION	
* 365	3-358-255-01	LEVER (GB LEVER)	
* 366	3-358-224-01	GEAR (FF GEAR)	
367	3-358-207-01	SPRING (FF GEAR), COMPRESSION	
368	3-358-227-01	SPRING, LEAF	
* 369	3-358-284-01	GEAR (TU GEAR)	
* 370	3-358-252-01	LEVER (TU ARM)	
* 371	3-358-253-01	LEVER (SHUT-OFF LEVER)	
372	3-358-243-01	SPRING (TU-SHUT), TORSION	
373	X-3358-207-2	CHASSIS (A) ASSY	
HE901	1-543-673-11	HEAD, MAGNETIC (ERASE) (DECK B)	
HP901	1-543-319-11	HEAD, MAGNETIC (PB) (DECK A)	
HRP901	1-543-319-11	HEAD, MAGNETIC (REC/PB) (DECK B)	

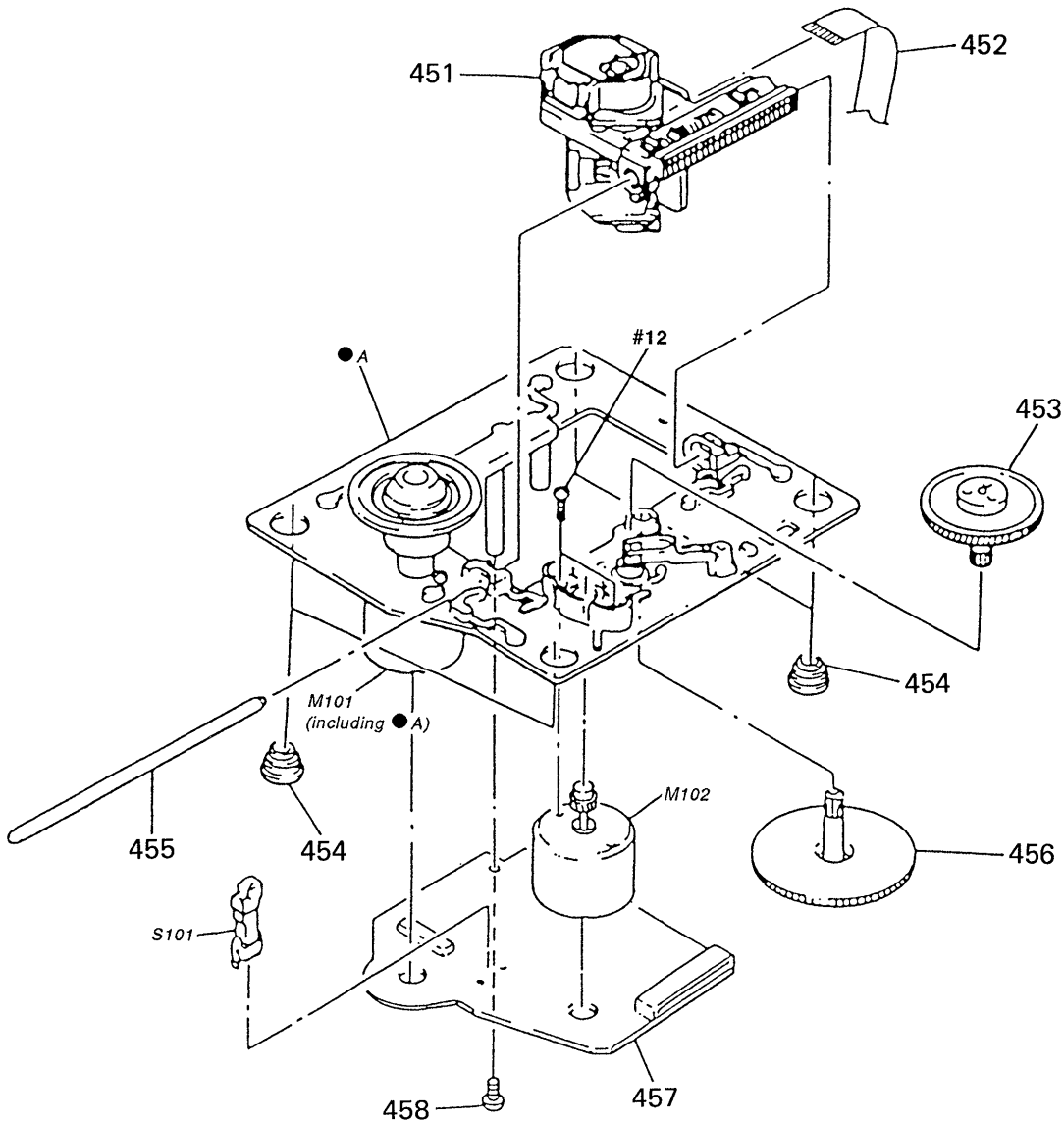
7-6. CD MECHANISM SECTION (CDM28-5BD19)



Ref. No.	Part No.	Description	Remark
401	4-960-835-01	HOLDER (M)	
402	1-452-719-11	MAGNET ASSY	
403	4-917-583-21	BRACKET, YOKE	
404	4-960-838-03	BASE (MD)	
405	4-960-842-01	GEAR (P)	
406	4-927-649-01	BELT	
407	4-960-841-01	PULLEY (S)	
* 408	4-960-839-01	CAM	
409	4-960-836-01	TABLE, DISC	

Ref. No.	Part No.	Description	Remark
* 410	1-650-836-11	LOADING BOARD	
411	4-933-134-01	SCREW (+PTPWH M2.6×6)	
412	4-960-834-01	HOLDER (BU)	
413	4-959-996-01	SPRING (932), COMPRESSION	
* CN291	1-568-943-11	PIN, CONNECTOR 5P	
M903	A-4604-363-A	MOTOR (L) ASSY	
S291	1-572-086-11	SWITCH, LEAF (LOAD OUT)	
S292	1-572-086-11	SWITCH, LEAF (LODE IN)	

7-7. BASE UNIT SECTION (BU-5BD19)



The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	Part No.	Description	Remark
⚠451	8-848-367-11	DEVICE, OPTICAL KSS-213B/K-N (US, CND, EE, E, EA, MY, SP, JE, HK)	
⚠451	8-848-376-01	DEVICE, OPTICAL KSS-213B/S-N (AEP, UK, IT, G, AUS, MX, AR)	
⚠451	8-848-379-01	DEVICE, OPTICAL KSS-213BA/F-N (US, CND, EE, E, EA, MY, SP, JE, HK)	
452	1-769-069-11	WIRE (FLAT TYPE) (16 CORE)	
453	4-917-567-21	GEAR (M)	
454	4-951-940-11	INSULATOR (BU)	
455	4-917-565-01	SHAFT, SLED	
456	4-917-564-01	GEAR (P), FLATNESS	
* 457	A-4673-402-A	BD BOARD, COMPLETE	
458	4-951-620-01	SCREW (2.6×8), +BVTP	
M101	X-4917-523-4	MOTOR ASSY (SPINDLE)	
M102	X-4917-504-1	MOTOR ASSY (SLED)	
S101	1-572-085-11	SWITCH, LEAF (LIMIT SW)	

BD

SECTION 8
ELECTRICAL PARTS LIST

NOTE :

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms
  METAL : Metal-film resistor
  METAL OXIDE : Metal oxide-film resistor
  F : nonflammable
- Items marked " * "are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u : μ , for example :
  uA.... : μ A.... , uPA.... : μ PA....
  uPB.... : μ PB.... , uPC.... : μ PC....
  uPD.... : μ PD....
- CAPACITORS
  uF : μ F
- COILS
  uH : μ H
- Abbreviation

CND	: Canadian	EA	: Saudi Arabia	MX	: Mexican
IT	: Italian	AUS	: Australian	AR	: Argentine
G	: German	MY	: Malaysia	JE	: Tourist
EE	: East European	SP	: Singapore	HK	: Hong Kong

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

When indicating parts by reference number, please include the board.

Ref. No.	Part No.	Description			Remark
*	A-4673-402-A	BD BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C101	1-126-607-11	ELECT CHIP	47uF	20%	4V
C102	1-163-275-11	CERAMIC CHIP	0.001uF	5%	50V
C103	1-164-346-11	CERAMIC CHIP	1uF		16V
C105	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C106	1-164-695-11	CERAMIC CHIP	0.0022uF	5%	50V
C107	1-164-695-11	CERAMIC CHIP	0.0022uF	5%	50V
C108	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C109	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C110	1-163-989-11	CERAMIC CHIP	0.033uF	10%	25V
C111	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C112	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C113	1-164-695-11	CERAMIC CHIP	0.0022uF	5%	50V
C114	1-164-005-11	CERAMIC CHIP	0.47uF		25V
C115	1-126-607-11	ELECT CHIP	47uF	20%	4V
C116	1-163-143-00	CERAMIC CHIP	0.0012uF	5%	50V
C117	1-164-005-11	CERAMIC CHIP	0.47uF		25V
C118	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C119	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C120	1-135-201-11	TANTALUM CHIP	10uF	20%	4V
C121	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C122	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C123	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C124	1-126-607-11	ELECT CHIP	47uF	20%	4V
C125	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C126	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C127	1-164-695-11	CERAMIC CHIP	0.0022uF	5%	50V
C128	1-163-135-00	CERAMIC CHIP	560PF	5%	50V
C129	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C130	1-164-336-11	CERAMIC CHIP	0.33uF		25V
C131	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C132	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C133	1-163-145-00	CERAMIC CHIP	0.0015uF	5%	50V
C134	1-164-346-11	CERAMIC CHIP	1uF		16V
C135	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C136	1-164-005-11	CERAMIC CHIP	0.47uF		25V
C137	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C139	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C140	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C141	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C142	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C145	1-135-201-11	TANTALUM CHIP	10uF	20%	4V
C146	1-135-201-11	TANTALUM CHIP	10uF	20%	4V
C147	1-163-275-11	CERAMIC CHIP	0.001uF	5%	50V
C148	1-163-275-11	CERAMIC CHIP	0.001uF	5%	50V
C149	1-164-346-11	CERAMIC CHIP	1uF		16V
C153	1-135-259-11	TANTAL. CHIP	10uF	20%	6.3V
C154	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
		< CONNECTOR >			
CNU101	1-770-014-11	CONNECTOR, FFC/FPC 16P			
CNU102	1-770-013-11	CONNECTOR, FFC/FPC 19P			
		< IC >			
IC101	8-752-069-56	IC CXA1782BQ			
IC102	8-759-291-06	IC BA6397FP-T1			
IC103	8-752-372-94	IC CXD2507AQ			
IC104	8-759-185-29	IC PCM1710U-BT1			
		< TRANSISTOR >			
Q101	8-729-010-08	TRANSISTOR MSB710-R			
Q102	8-729-424-08	TRANSISTOR UN2111			
Q103	8-729-421-22	TRANSISTOR UN2211			

BD HP

Ref.No.	Part No.	Description			Remark
		< RESISTOR >			
R102	1-216-001-00	METAL CHIP	10	5%	1/10W
R103	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R104	1-216-097-00	METAL CHIP	100K	5%	1/10W
R105-108					
	1-216-089-00	METAL CHIP	47K	5%	1/10W
R109	1-216-097-00	METAL CHIP	100K	5%	1/10W
R112	1-216-077-00	METAL CHIP	15K	5%	1/10W
R113	1-216-077-00	METAL CHIP	15K	5%	1/10W
R114	1-216-101-00	METAL CHIP	150K	5%	1/10W
R115	1-216-101-00	METAL CHIP	150K	5%	1/10W
R116	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R117	1-216-093-00	METAL CHIP	68K	5%	1/10W
R118	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R119	1-216-121-00	METAL CHIP	1M	5%	1/10W
R120	1-216-089-00	METAL CHIP	47K	5%	1/10W
R121	1-216-114-00	METAL GLAZE	510K	5%	1/10W
R122	1-216-097-00	METAL CHIP	100K	5%	1/10W
R123	1-216-099-00	METAL CHIP	120K	5%	1/10W
R124	1-216-091-00	METAL CHIP	56K	5%	1/10W
R125	1-216-069-00	METAL CHIP	6.8K	5%	1/10W
R126	1-216-063-00	METAL CHIP	3.9K	5%	1/10W
R127	1-216-089-00	METAL CHIP	47K	5%	1/10W
R128	1-216-105-91	METAL GLAZE	220K	5%	1/10W
R129	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R130	1-216-079-00	METAL CHIP	18K	5%	1/10W
R131	1-216-079-00	METAL CHIP	18K	5%	1/10W
R132	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R133	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R134	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R135	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R136	1-216-073-00	METAL CHIP	10K	5%	1/10W
R137	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R138	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R139	1-216-033-00	METAL CHIP	220	5%	1/10W
R140	1-216-081-00	METAL CHIP	22K	5%	1/10W
R141	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R142	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R143	1-216-121-00	METAL CHIP	1M	5%	1/10W
R144	1-216-073-00	METAL CHIP	10K	5%	1/10W
R145	1-216-097-00	METAL CHIP	100K	5%	1/10W
R146	1-216-097-00	METAL CHIP	100K	5%	1/10W
R147-149					
	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R150-152					
	1-216-037-00	METAL CHIP	330	5%	1/10W
R153	1-216-089-00	METAL CHIP	47K	5%	1/10W
R154	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R156	1-216-081-00	METAL CHIP	22K	5%	1/10W
R157	1-216-069-00	METAL CHIP	6.8K	5%	1/10W
R158	1-216-001-00	METAL CHIP	10	5%	1/10W
		< VARIABLE RESISTOR >			
RV101	1-241-396-11	RES, ADJ, METAL GLAZE 22K (FOCUS BIAS)			
RV102	1-241-396-11	RES, ADJ, METAL GLAZE 22K (FOCUS GAIN)			
RV103	1-241-396-11	RES, ADJ, METAL GLAZE 22K (TRACKING GAIN)			
		< SWITCH >			
S101	1-572-085-11	SWITCH, LEAF (LIMIT SW)			
		< VIBRATOR >			
X101	1-579-280-11	VIBRATOR, CRYSTAL (16.9344MHz)			
**********					
*	1-655-384-11	HP BOARD			
		********			
		< CAPACITOR >			
C701	1-162-306-11	CERAMIC	0.01uF	30%	16V (E, EA, AUS, MY, SP, MX, AR, JE, HK)
C702	1-124-925-11	ELECT	2.2uF	20%	100V (E, EA, AUS, MY, SP, MX, AR, JE, HK)
C703	1-162-294-31	CERAMIC	0.001uF	10%	50V (E, EA, AUS, MY, SP, MX, AR, JE, HK)
C704	1-162-215-31	CERAMIC	47PF	5%	50V (E, EA, AUS, MY, SP, MX, AR, JE, HK)
C705	1-162-290-31	CERAMIC	470PF	10%	50V (E, EA, AUS, MY, SP, MX, AR, JE, HK)
C706	1-124-902-00	ELECT	0.47uF	20%	50V (E, EA, AUS, MY, SP, MX, AR, JE, HK)
C709	1-126-967-11	ELECT	47uF	20%	16V (E, EA, AUS, MY, SP, MX, AR, JE, HK)
C710	1-126-967-11	ELECT	47uF	20%	16V (E, EA, AUS, MY, SP, MX, AR, JE, HK)
C719	1-164-159-11	CERAMIC	0.1uF		50V
C720	1-164-159-11	CERAMIC	0.1uF		50V
C721	1-124-902-00	ELECT	0.47uF	20%	50V (E, EA, AUS, MY, SP, MX, AR, JE, HK)
C722	1-162-215-31	CERAMIC	47PF	5%	50V (E, EA, AUS, MY, SP, MX, AR, JE, HK)
C723	1-162-282-31	CERAMIC	100PF	10%	50V (E, EA, AUS, MY, SP, MX, AR, JE, HK)
		< IC >			
IC701	8-759-634-51	IC M5218AP			(E, EA, AUS, MY, SP, MX, AR, JE, HK)

HP LOADING MAIN

Ref.No.	Part No.	Description	Remark
		< JACK >	
J701	1-507-854-00	JACK, PHONE (PHONES)	
J702	1-507-854-00	JACK, PHONE (MIX MIC)	(E, EA, AU, MY, SP, MX, AR, JE, HK)
		< RESISTOR >	
R701	1-249-429-11	CARBON 10K 5% 1/4W	(E, EA, AUS, MY, SP, MX, AR, JE, HK)
R702	1-249-417-11	CARBON 1K 5% 1/4W	(E, EA, AUS, MY, SP, MX, AR, JE, HK)
R703	1-249-441-11	CARBON 100K 5% 1/4W	(E, EA, AUS, MY, SP, MX, AR, JE, HK)
R704	1-249-417-11	CARBON 1K 5% 1/4W	(E, EA, AUS, MY, SP, MX, AR, JE, HK)
R705	1-247-863-91	CARBON 22K 5% 1/4W	(E, EA, AUS, MY, SP, MX, AR, JE, HK)
R706	1-247-883-00	CARBON 150K 5% 1/4W	(E, EA, AUS, MY, SP, MX, AR, JE, HK)
R707	1-249-430-11	CARBON 12K 5% 1/4W	(E, EA, AUS, MY, SP, MX, AR, JE, HK)
R708	1-249-417-11	CARBON 1K 5% 1/4W	(E, EA, AUS, MY, SP, MX, AR, JE, HK)
**********			
*	1-650-836-11	LOADING BOARD	
		**********	
		< CONNECTOR >	
* CN291	1-568-943-11	PIN, CONNECTOR 5P	
		< SWITCH >	
S291	1-572-086-11	SWITCH, LEAF (LOAD OUT)	
S292	1-572-086-11	SWITCH, LEAF (LODE IN)	
**********			
*	A-4377-400-A	MAIN BOARD, COMPLETE (US, CND)	
*	A-4377-417-A	MAIN BOARD, COMPLETE (AE1)	
*	A-4377-419-A	MAIN BOARD, COMPLETE (AE2)	
*	A-4377-399-A	MAIN BOARD, COMPLETE (UK2)	
	A-4377-948-A	MAIN BOARD, COMPLETE (UK1)	
*	A-4377-421-A	MAIN BOARD, COMPLETE (IT)	
*	A-4377-420-A	MAIN BOARD, COMPLETE (G)	
*	A-4377-418-A	MAIN BOARD, COMPLETE (EE)	
*	A-4377-405-A	MAIN BOARD, COMPLETE (E2, MX, AR)	
*	A-4377-406-A	MAIN BOARD, COMPLETE (E3, MY, SP, HK)	
*	A-4377-407-A	MAIN BOARD, COMPLETE (EA)	
*	A-4377-409-A	MAIN BOARD, COMPLETE (AUS)	
*	A-4377-408-A	MAIN BOARD, COMPLETE (JE)	
		**********	
	4-941-237-11	HEAT SINK	

Ref.No.	Part No.	Description			Remark
		< CAPACITOR >			
C1	1-162-306-11	CERAMIC	0.01uF	30% 16V	
C2	1-162-205-31	CERAMIC	18PF	5% 50V	
C3	1-162-306-11	CERAMIC	0.01uF	30% 16V	
C4	1-162-306-11	CERAMIC	0.01uF	30% 16V	
C5	1-126-967-11	ELECT	47uF	20% 16V	
C6	1-162-306-11	CERAMIC	0.01uF	30% 16V	(AE2, UK2, IT, G)
C7	1-162-306-11	CERAMIC	0.01uF	30% 16V	
C10	1-162-306-11	CERAMIC	0.01uF	30% 16V	
C14	1-164-159-11	CERAMIC	0.1uF	50V	(E3, EA, MY, SP, JE, HK)
C15	1-136-162-00	FILM	0.056uF	5% 50V	(E3, EA, MY, SP, JE, HK)
C16	1-126-933-11	ELECT	100uF	20% 16V	(E3, EA, MY, SP, JE, HK)
C17	1-162-306-11	CERAMIC	0.01uF	30% 16V	(E3, EA, MY, SP, JE, HK)
C18	1-162-195-31	CERAMIC	4.7PF	10% 50V	(E3, EA, MY, SP, JE, HK)
C19	1-102-527-11	CERAMIC	82PF	5% 50V	(AEP, UK, EE)
C20	1-162-211-31	CERAMIC	33PF	5% 50V	(EXCEPT US, CND, AE1)
C21	1-162-306-11	CERAMIC	0.01uF	30% 16V	
C22	1-162-306-11	CERAMIC	0.01uF	30% 16V	
C23	1-162-199-31	CERAMIC	10PF	5% 50V	
C24	1-162-199-31	CERAMIC	10PF	5% 50V	
C25	1-162-306-11	CERAMIC	0.01uF	30% 16V	
C26	1-126-967-11	ELECT	47uF	20% 16V	
C27	1-162-306-11	CERAMIC	0.01uF	30% 16V	
C28	1-126-967-11	ELECT	47uF	20% 16V	
C29	1-162-306-11	CERAMIC	0.01uF	30% 16V	
C30	1-124-925-11	ELECT	2.2uF	20% 100V	
C31	1-136-153-00	FILM	0.01uF	5% 50V	
C32	1-124-463-00	ELECT	0.1uF	20% 50V	
C33	1-164-159-11	CERAMIC	0.1uF	50V	(EXCEPT UK)
C34	1-162-196-31	CERAMIC	5.6PF	10% 50V	(US, CND, AE1)
C34	1-162-198-31	CERAMIC	8.2PF	10% 50V	(EXCEPT US, CND, AE1)
C38	1-162-203-31	CERAMIC	15PF	5% 50V	(US, CND, AE1)
C41	1-164-159-11	CERAMIC	0.1uF	50V	
C42-46	1-162-306-11	CERAMIC	0.01uF	30% 16V	
C47	1-126-967-11	ELECT	47uF	20% 16V	
C48	1-162-306-11	CERAMIC	0.01uF	30% 16V	

Ref. No.	Part No.	Description				Remark
C49	1-124-902-00	ELECT	0.47uF	20%	50V	
C50	1-124-903-11	ELECT	1uF	20%	50V	
C51	1-124-903-11	ELECT	1uF	20%	50V	
C52-56	1-126-964-11	ELECT	10uF	20%	50V	
C57	1-162-600-11	CERAMIC	0.0047uF	30%	16V	
C58	1-162-600-11	CERAMIC	0.0047uF	30%	16V	
C59	1-136-495-11	FILM	0.068uF	5%	50V	(US, CND)
C59	1-136-159-00	FILM	0.033uF	5%	50V	(EXCEPT US, CND)
C60	1-136-495-11	FILM	0.068uF	5%	50V	(US, CND)
C60	1-136-159-00	FILM	0.033uF	5%	50V	(EXCEPT US, CND)
C61	1-124-903-11	ELECT	1uF	20%	50V	
C62	1-162-294-31	CERAMIC	0.001uF	10%	50V	
C63	1-162-303-11	CERAMIC	0.0033uF	30%	16V	
C64	1-126-967-11	ELECT	47uF	20%	16V	
C65	1-162-306-11	CERAMIC	0.01uF	30%	16V	
C66	1-126-111-11	ELECT	3.3uF	20%	50V	
C67	1-126-933-11	ELECT	100uF	20%	10V	(US, CND, AE1, UK1)
C67	1-126-964-11	ELECT	10uF	20%	50V	(EXCEPT US, CND, AE1, UK1)
C68	1-162-306-11	CERAMIC	0.01uF	30%	16V	
C101	1-162-286-21	CERAMIC	220PF	10%	50V	
C112	1-162-306-11	CERAMIC	0.01uF	30%	16V	
C113	1-162-306-11	CERAMIC	0.01uF	30%	16V	
C124	1-126-964-11	ELECT	10uF	20%	50V	
C125	1-136-161-00	FILM	0.047uF	5%	50V	
C126	1-136-161-00	FILM	0.047uF	5%	50V	
C127	1-136-169-00	FILM	0.22uF	5%	50V	
C128	1-162-305-11	CERAMIC	0.0068uF	30%	16V	
C129	1-136-159-00	FILM	0.033uF	5%	50V	(EXCEPT EA)
C130	1-162-600-11	CERAMIC	0.0047uF	30%	16V	
C131	1-136-169-00	FILM	0.22uF	5%	50V	
C132	1-136-169-00	FILM	0.22uF	5%	50V	
C133	1-126-964-11	ELECT	10uF	20%	50V	
C134	1-126-964-11	ELECT	10uF	20%	50V	
C135	1-136-169-00	FILM	0.22uF	5%	50V	
C136	1-136-169-00	FILM	0.22uF	5%	50V	
C137	1-162-600-11	CERAMIC	0.0047uF	30%	16V	
C138	1-136-159-00	FILM	0.033uF	5%	50V	
C139	1-162-305-11	CERAMIC	0.0068uF	30%	16V	
C140	1-136-169-00	FILM	0.22uF	5%	50V	
C141	1-136-161-00	FILM	0.047uF	5%	50V	
C142	1-161-494-00	CERAMIC	0.022uF		25V	
C143	1-162-306-11	CERAMIC	0.01uF	30%	16V	(US, CND, AE1)
C144	1-162-306-11	CERAMIC	0.01uF	30%	16V	(US, CND, AE1)
C146	1-126-964-11	ELECT	10uF	20%	50V	
C147	1-162-306-11	CERAMIC	0.01uF	30%	16V	
C148	1-162-600-11	CERAMIC	0.0047uF	30%	16V	
C149	1-126-964-11	ELECT	10uF	20%	50V	
C150	1-164-159-11	CERAMIC	0.1uF		50V	
C151	1-162-286-21	CERAMIC	220PF	10%	50V	
C153	1-162-600-11	CERAMIC	0.0047uF	30%	16V	
C154	1-162-600-11	CERAMIC	0.0047uF	30%	16V	
C160	1-164-159-11	CERAMIC	0.1uF		50V	(EXCEPT UK2)
C161	1-136-165-00	FILM	0.1uF	5%	50V	
C162	1-136-165-00	FILM	0.1uF	5%	50V	
C163	1-136-165-00	FILM	0.1uF	5%	50V	
C164	1-136-165-00	FILM	0.1uF	5%	50V	
C165	1-162-306-11	CERAMIC	0.01uF	30%	16V	
C166	1-162-306-11	CERAMIC	0.01uF	30%	16V	
C171	1-109-889-11	ELECT	1uF	20%	50V	(EXCEPT UK2)
C172	1-109-889-11	ELECT	1uF	20%	50V	
C173	1-126-964-11	ELECT	10uF	20%	50V	
C174	1-126-964-11	ELECT	10uF	20%	50V	
C181	1-126-964-11	ELECT	10uF	20%	50V	
C182	1-126-964-11	ELECT	10uF	20%	50V	
C183	1-162-294-31	CERAMIC	0.001uF	10%	50V	
C184	1-162-294-31	CERAMIC	0.001uF	10%	50V	
C194	1-162-306-11	CERAMIC	0.01uF	30%	16V	
C195	1-162-306-11	CERAMIC	0.01uF	30%	16V	
C196	1-126-964-11	ELECT	10uF	20%	50V	
C197	1-162-306-11	CERAMIC	0.01uF	30%	16V	
C198	1-162-600-11	CERAMIC	0.0047uF	30%	16V	
C199	1-126-964-11	ELECT	10uF	20%	50V	
C300	1-162-294-31	CERAMIC	0.001uF	10%	50V	
C303	1-136-165-00	FILM	0.1uF	5%	50V	
C304	1-162-199-31	CERAMIC	10PF	5%	50V	(US, CND, AE1)
C304	1-162-206-31	CERAMIC	20PF	5%	50V	(EXCEPT US, CND, AE1)
C305	1-162-199-31	CERAMIC	10PF	5%	50V	(US, CND, AE1)
C305	1-162-206-31	CERAMIC	20PF	5%	50V	(EXCEPT US, CND, AE1)
C307	1-162-282-31	CERAMIC	100PF	10%	50V	
C310	1-162-294-31	CERAMIC	0.001uF	10%	50V	
C311	1-162-294-31	CERAMIC	0.001uF	10%	50V	
C320	1-126-927-11	ELECT	2200uF	20%	10V	
C321	1-124-917-11	ELECT	33uF	20%	63V	(EXCEPT UK1)

MAIN

Ref. No.	Part No.	Description				Remark
C380	1-126-964-11	ELECT	10uF	20%	50V	
C381	1-162-294-31	CERAMIC	0.001uF	10%	50V	
C398	1-162-306-11	CERAMIC	0.01uF	30%	16V	
C401	1-162-286-21	CERAMIC	220PF	10%	50V	
C402	1-130-479-00	MYLAR	0.0047uF	5%	50V	
C403	1-162-292-31	CERAMIC	680PF	10%	50V	
C404	1-164-159-11	CERAMIC	0.1uF		50V	
C405	1-126-964-11	ELECT	10uF	20%	50V	
C406	1-124-903-11	ELECT	1uF	20%	50V	
C407	1-124-902-00	ELECT	0.47uF	20%	50V	
C408	1-126-964-11	ELECT	10uF	20%	50V	
C409	1-126-964-11	ELECT	10uF	20%	50V	
C410	1-162-301-11	CERAMIC	0.0015uF	30%	16V	
C411	1-124-903-11	ELECT	1uF	20%	50V	
C420	1-164-159-11	CERAMIC	0.1uF		50V	
C421	1-126-964-11	ELECT	10uF	20%	50V	
C422	1-126-933-11	ELECT	100uF	20%	10V	
C423	1-126-933-11	ELECT	100uF	20%	10V	
C430	1-126-964-11	ELECT	10uF	20%	50V	
C431	1-126-964-11	ELECT	10uF	20%	50V	
C451	1-162-286-21	CERAMIC	220PF	10%	50V	
C452	1-130-479-00	MYLAR	0.0047uF	5%	50V	
C453	1-162-292-31	CERAMIC	680PF	10%	50V	
C454	1-164-159-11	CERAMIC	0.1uF		50V	
C455	1-126-964-11	ELECT	10uF	20%	50V	
C456	1-124-903-11	ELECT	1uF	20%	50V	
C457	1-124-902-00	ELECT	0.47uF	20%	50V	
C458	1-126-964-11	ELECT	10uF	20%	50V	
C459	1-126-964-11	ELECT	10uF	20%	50V	
C460	1-162-301-11	CERAMIC	0.0015uF	30%	16V	
C461	1-124-903-11	ELECT	1uF	20%	50V	
C601	1-162-293-31	CERAMIC	820PF	10%	50V	(US, CND, AE1)
C601	1-162-292-31	CERAMIC	680PF	10%	50V	(EXCEPT US, CND, AE1)
C602	1-136-157-00	FILM	0.022uF	5%	50V	
C603	1-126-964-11	ELECT	10uF	20%	50V	
C604	1-162-282-31	CERAMIC	100PF	10%	50V	
C605	1-162-293-31	CERAMIC	820PF	10%	50V	
C606	1-126-933-11	ELECT	100uF	20%	10V	
C607	1-136-157-00	FILM	0.022uF	5%	50V	
C608	1-162-282-31	CERAMIC	100PF	10%	50V	
C609	1-126-964-11	ELECT	10uF	20%	50V	
C620	1-162-209-31	CERAMIC	27PF	5%	50V	
C621	1-162-279-31	CERAMIC	75PF	10%	50V	
C622	1-162-288-31	CERAMIC	330PF	10%	50V	
C623	1-162-283-31	CERAMIC	120PF	10%	50V	
C624	1-164-159-11	CERAMIC	0.1uF		50V	
C625	1-164-159-11	CERAMIC	0.1uF		50V	

Ref. No.	Part No.	Description				Remark
C630	1-162-209-31	CERAMIC	27PF	5%	50V	
C631	1-162-279-31	CERAMIC	75PF	10%	50V	
C632	1-162-288-31	CERAMIC	330PF	10%	50V	
C633	1-162-283-31	CERAMIC	120PF	10%	50V	
C651	1-162-293-31	CERAMIC	820PF	10%	50V	(US, CND, AE1)
C651	1-162-292-31	CERAMIC	680PF	10%	50V	(EXCEPT US, CND, AE1)
C652	1-136-157-00	FILM	0.022uF	5%	50V	
C653	1-126-964-11	ELECT	10uF	20%	50V	
C654	1-162-282-31	CERAMIC	100PF	10%	50V	
C655	1-162-293-31	CERAMIC	820PF	10%	50V	
C656	1-126-933-11	ELECT	100uF	20%	10V	
C657	1-136-157-00	FILM	0.022uF	5%	50V	
C658	1-162-282-31	CERAMIC	100PF	10%	50V	
C659	1-126-964-11	ELECT	10uF	20%	50V	
C660	1-164-159-11	CERAMIC	0.1uF		50V	
C661	1-124-925-11	ELECT	2.2uF	20%	100V	
C662	1-136-601-11	FILM	0.01uF	5%	630V	
C663	1-124-925-11	ELECT	2.2uF	20%	100V	
C664	1-136-153-00	FILM	0.01uF	5%	50V	
C665	1-162-305-11	CERAMIC	0.0068uF	30%	16V	
C666	1-130-478-00	MYLAR	0.0039uF	5%	50V	
C667	1-130-478-00	MYLAR	0.0039uF	5%	50V	
C668	1-164-159-11	CERAMIC	0.1uF		50V	
C669	1-126-934-11	ELECT	220uF	20%	16V	
C680	1-126-933-11	ELECT	100uF	20%	16V	
C681	1-126-933-11	ELECT	100uF	20%	16V	
C682	1-162-306-11	CERAMIC	0.01uF	30%	16V	(EXCEPT US, CND, AE1)
C683	1-162-306-11	CERAMIC	0.01uF	30%	16V	
C801	1-137-399-11	FILM	0.1uF	10%	100V	
C802	1-137-399-11	FILM	0.1uF	10%	100V	
C803	1-126-974-11	ELECT	3300uF	20%	50V	
C804	1-126-974-11	ELECT	3300uF	20%	50V	
C805	1-124-122-11	ELECT	100uF	20%	50V	
C806	1-124-122-11	ELECT	100uF	20%	50V	
C807	1-136-165-00	FILM	0.1uF	5%	50V	
C808	1-126-947-11	ELECT	47uF	20%	35V	
C809	1-126-936-11	ELECT	3300uF	20%	16V	
C810	1-126-943-11	ELECT	2200uF	20%	25V	
C811	1-126-936-11	ELECT	3300uF	20%	16V	
C812	1-126-952-11	ELECT	1000uF	20%	16V	
C813	1-136-165-00	FILM	0.1uF	5%	50V	
C814	1-136-165-00	FILM	0.1uF	5%	50V	
C815	1-126-933-11	ELECT	100uF	20%	10V	
C824	1-126-933-11	ELECT	100uF	20%	10V	
C825	1-126-933-11	ELECT	100uF	20%	10V	

Ref.No.	Part No.	Description			Remark
C826	1-126-916-11	ELECT	1000uF	20%	6.3V
C827	1-126-925-11	ELECT	470uF	20%	10V
C828	1-126-176-11	ELECT	220uF	20%	10V
C829	1-126-176-11	ELECT	220uF	20%	10V
C830	1-124-925-11	ELECT	2.2uF	20%	100V
C831	1-126-964-11	ELECT	10uF	20%	50V
C832	1-126-964-11	ELECT	10uF	20%	50V
C833	1-128-551-11	ELECT	22uF	20%	50V
C834	1-136-165-00	FILM	0.1uF	5%	50V
C835	1-126-933-11	ELECT	100uF	20%	10V
C836	1-164-159-11	CERAMIC	0.1uF		50V (EXCEPT AE1)
C837	1-164-159-11	CERAMIC	0.1uF		50V (AE2, UK, IT, G)
C838	1-126-933-11	ELECT	100uF	20%	10V
C840	1-126-967-11	ELECT	47uF	20%	16V
C886	1-164-159-11	CERAMIC	0.1uF		50V (EXCEPT AE1)
C887	1-164-159-11	CERAMIC	0.1uF		50V (AE2, UK, IT, G)
C926	1-162-306-11	CERAMIC	0.01uF	30%	16V (EXCEPT US, CND, AE1)
C9001	1-162-306-11	CERAMIC	0.01uF	30%	16V
C9002	1-162-306-11	CERAMIC	0.01uF	30%	16V
C9003	1-162-282-31	CERAMIC	100PF	10%	50V
C9004	1-162-306-11	CERAMIC	0.01uF	30%	16V (US, CND)
C9005	1-162-306-11	CERAMIC	0.01uF	30%	16V (US, CND)
		< FILTER >			
CF1	1-567-389-11	FILTER, CERAMIC			
CF2	1-567-389-11	FILTER, CERAMIC (AE2, UK, IT, G)			
CF3	1-567-389-11	FILTER, CERAMIC (EXCEPT UK1)			
		< CONNECTOR >			
CN101	1-691-767-11	PLUG (MICRO CONNECTOR) 5P			
CN103	1-506-469-11	PIN, CONNECTOR 4P (UK, E, EA, AUS, MY, SP, MX, AR, JE, HK)			
* CN105	1-568-832-11	SOCKET, CONNECTOR 13P			
CN111	1-568-802-11	SOCKET, CONNECTOR 19P			
* CN401	1-568-449-11	HOUSING, CONNECTOR (PC BOARD) 3P			
* CN402	1-568-449-11	HOUSING, CONNECTOR (PC BOARD) 3P			
CN601	1-564-506-11	PLUG, CONNECTOR 3P			
* CN602	1-564-509-11	PLUG, CONNECTOR 6P			
CN603	1-564-505-11	PLUG, CONNECTOR 2P			
* CN604	1-564-706-11	PIN, CONNECTOR (SMALL TYPE) 4P			
		< VARIABLE CAPACITOR >			
CV1	1-141-227-00	CAP, TRIMMER	20PF		(E3, EA, MY, SP, JE, HK)
CV2	1-141-227-00	CAP, TRIMMER	20PF		(E3, EA, MY, SP, JE, HK)

Ref.No.	Part No.	Description		Remark
		< DIODE >		
D1	8-719-976-30	DIODE	KV1560N	(E3, EA, MY, SP, JE, HK)
D21	8-719-933-33	DIODE	HZS6A1L	
D41	8-719-987-63	DIODE	1N4148M	
D102-105	8-719-987-63	DIODE	1N4148M	
D106	8-719-210-21	DIODE	11EQS04	(EXCEPT UK1)
D107	8-719-987-63	DIODE	1N4148M	
D110	8-719-987-63	DIODE	1N4148M	
D301	8-719-200-82	DIODE	11ES2	
D302	8-719-987-63	DIODE	1N4148M	
D304	8-719-987-63	DIODE	1N4148M	
D401	8-719-987-63	DIODE	1N4148M	
D601	8-719-987-63	DIODE	1N4148M	
D621-624	8-719-987-63	DIODE	1N4148M	
D801	8-719-987-63	DIODE	1N4148M	
D802	8-719-987-63	DIODE	1N4148M	
D803	8-719-025-03	DIODE	RBA-402-SL	
D804	8-719-200-82	DIODE	11ES2	
D805	8-719-200-82	DIODE	11ES2	
D806	8-719-002-43	DIODE	UZL-27L-TA	
D807	8-719-200-82	DIODE	11ES2	
D808	8-719-200-82	DIODE	11ES2	
D809	8-719-987-63	DIODE	1N4148M	
D810	8-719-987-63	DIODE	1N4148M	
D811-814	8-719-200-82	DIODE	11ES2	
D815	8-719-987-63	DIODE	1N4148M	
D819	8-719-987-63	DIODE	1N4148M	
D823	8-719-200-82	DIODE	11ES2	
D824	8-719-200-82	DIODE	11ES2	
		< FRONT END >		
FE1	1-465-673-11	FRONT END (2 BAND)		(US, CND, AE1)
FE1	1-693-217-11	FRONT END (4 GANG)		(AE2, UK, IT, G)
FE1	1-465-396-11	FRONT END (3 GANG)		(EE)
FE1	1-693-090-51	FRONT END (FM) (2 GANG)		(E, EA, AUS, MY, SP, MX, AR, JE, HK)
FE2	1-239-260-11	ENCAPSULATED COMPONENT		(US, CND, IT, G, E2, AUS, MX, AR)
FE2	1-233-281-11	ENCAPSULATED COMPONENT		(AEP, UK, EE)
FE2	1-239-262-11	ENCAPSULATED COMPONENT		(E3, EA, MY, SP, JE, HK)
		< IC >		
IC1	8-759-200-60	IC	TA7060AP	(AE2, UK2, IT, G)
IC2	8-759-200-60	IC	TA7060AP	(AE2, UK2, IT, G)
IC21	8-759-288-54	IC	LC72130	
IC41	8-759-176-03	IC	LA1835	

MAIN

Ref. No.	Part No.	Description	Remark
IC101	8-759-333-93	IC TMP87CP64F-6254	
IC102	8-759-000-48	IC MC14052BCP	
IC104	8-759-140-53	IC uPD4053BC	(E, EA, AUS, MY, SP, MX, AR, JE, HK)
IC105	8-759-822-09	IC LB1641	
IC107	8-759-634-51	IC M5218AP	
IC108	8-759-291-98	IC M62423FP	
IC109	8-759-281-42	IC TC9210P	
IC301	8-759-916-14	IC SN74HC04AN	
IC401	8-759-289-38	IC HA12195NT	
IC601	8-759-261-93	IC NJM4580LD	
IC602	8-759-261-93	IC NJM4580LD	
IC603	8-759-143-54	IC uPC1330HA	
IC801	8-759-111-68	IC uPC1237HA	
IC802	8-759-231-53	IC TA7805S	
IC803	8-759-231-58	IC TA7812S	
IC804	8-759-288-53	IC LA5617	
IC805	8-759-165-80	IC PST600C-T	
IC806	8-759-604-30	IC M5F7808L	
		< IFT >	
IFT41	1-404-853-11	TRANSFORMER, IF (CERAMIC FILTER)	
		< JACK >	
* J101	1-569-130-11	JACK, PIN 2P (AUX IN)	
		< COIL >	
L1	1-410-521-11	INDUCTOR 100uH (E3, EA, MY, SP, JE, HK)	
L2	1-408-397-00	INDUCTOR 1uH (EXCEPT US, CND, AE1, UK1)	
L41	1-407-500-00	INDUCTOR 4.7mH	
L601	1-408-429-00	INDUCTOR 470uH	
L620	1-410-780-11	INDUCTOR 27mH (EXCEPT UK1)	
L630	1-410-780-11	INDUCTOR 27mH (EXCEPT UK1)	
L801	1-420-872-00	COIL, AIR CORE (EXCEPT US, CND, AE1, EE)	
L851	1-420-872-00	COIL, AIR CORE (EXCEPT US, CND, AE1, EE)	
L9001	1-410-521-11	INDUCTOR 100uH (US, CND)	
		< FILTER >	
LPF41	1-239-845-11	FILTER, LOW PASS	
LPF42	1-239-845-11	FILTER, LOW PASS	
		< TRANSISTOR >	
Q1	8-729-230-99	TRANSISTOR 2SC2669OY-TPE4	(EXCEPT AE2, UK2, G, IT)
Q2	8-729-230-99	TRANSISTOR 2SC2669OY-TPE4	(EXCEPT AE2, UK2, G, IT)
Q3	8-729-422-57	TRANSISTOR UN4111	
Q8	8-729-231-20	TRANSISTOR 2SK161-YGR	(E3, EA, MY, SP, JE, HK)
Q9	8-729-119-76	TRANSISTOR 2SA1175-HFE	(E3, EA, MY, SP, JE, HK)
Q10	8-729-119-76	TRANSISTOR 2SA1175-HFE	(E3, EA, MY, SP, JE, HK)
Q11	8-729-900-80	TRANSISTOR DTC114ES (AEP, UK, EE)	
Q12-14	8-729-900-80	TRANSISTOR DTC114ES	(AEP, UK, EE, E3, EA, MY, SP, JE, HK)
Q107	8-729-900-80	TRANSISTOR DTC114ES	
Q108	8-729-900-80	TRANSISTOR DTC114ES	
Q110	8-729-900-80	TRANSISTOR DTC114ES	(E, EA, AU, MY, SP, MX, AR, JE, HK)
Q170	8-729-422-57	TRANSISTOR UN4111	
Q171	8-729-141-26	TRANSISTOR 2SC3622A-LK	(EXCEPT AEP, UK, G, IT)
Q171	8-729-116-81	TRANSISTOR NYD3T-TP (AE1)	
Q171	8-729-178-59	TRANSISTOR NYC1S-TP (AE2, UK, IT, G)	
Q172	8-729-141-26	TRANSISTOR 2SC3622A-LK	(EXCEPT AEP, UK, G, IT)
Q172	8-729-116-81	TRANSISTOR NYD3T-TP (AE1)	
Q172	8-729-178-59	TRANSISTOR NYC1S-TP (AE2, UK, IT, G)	
Q303	8-729-119-78	TRANSISTOR 2SC2785-HFE	(EXCEPT AEP, UK, G, IT)
Q303	8-729-178-59	TRANSISTOR NYC1S-TP (AEP, UK, IT, G)	
Q401	8-729-119-78	TRANSISTOR 2SC2785-HFE	(EXCEPT AEP, UK, G, IT)
Q401	8-729-178-59	TRANSISTOR NYC1S-TP (AEP, UK, IT, G)	
Q403	8-729-900-65	TRANSISTOR DTA144ES	
Q451	8-729-119-78	TRANSISTOR 2SC2785-HFE	(EXCEPT AEP, UK, G, IT)
Q451	8-729-178-59	TRANSISTOR NYC1S-TP (AEP, UK, IT, G)	
Q601	8-729-900-80	TRANSISTOR DTC114ES (EXCEPT UK2)	
Q602	8-729-119-78	TRANSISTOR 2SC2785-HFE	(US, CND, EE, E, EA, AU, MY, SP, MX, AR, JE, HK)
Q602	8-729-178-59	TRANSISTOR NYC1S-TP (AEP, UK1, IT, G)	
Q660	8-729-111-29	TRANSISTOR 2SD1616A-K	(EXCEPT AEP, UK, G, IT)
Q660	8-729-116-81	TRANSISTOR NYD3T-TP (AEP, UK, IT, G)	
Q661	8-729-111-29	TRANSISTOR 2SD1616A-K	(EXCEPT AEP, UK, G, IT)
Q661	8-729-116-81	TRANSISTOR NYD3T-TP (AEP, UK, IT, G)	
Q662	8-729-119-76	TRANSISTOR 2SA1175-HFE	(EXCEPT AEP, UK, G, IT)
Q662	8-729-117-59	TRANSISTOR NYA2S-TP (AEP, UK, IT, G)	
Q663	8-729-119-78	TRANSISTOR 2SC2785-HFE	(EXCEPT AEP, UK, G, IT)
Q663	8-729-178-59	TRANSISTOR NYC1S-TP (AEP, UK, IT, G)	
Q801	8-729-900-63	TRANSISTOR DTA124ES	
Q802	8-729-900-89	TRANSISTOR DTC144ES	
Q807	8-729-900-89	TRANSISTOR DTC144ES	

Ref. No.	Part No.	Description				Remark
Q808	8-729-140-04	TRANSISTOR	2SB1116A-L			(EXCEPT AEP, UK, G, IT)
Q808	8-729-118-01	TRANSISTOR	2SB1116 (AEP, UK, IT, G)			
Q809	8-729-900-89	TRANSISTOR	DTC144ES			
Q810	8-729-140-04	TRANSISTOR	2SB1116A-L			(EXCEPT AEP, UK, G, IT)
Q810	8-729-118-01	TRANSISTOR	2SB1116 (AEP, UK, IT, G)			
Q811	8-729-140-04	TRANSISTOR	2SB1116A-L			(EXCEPT AEP, UK, G, IT)
Q811	8-729-118-01	TRANSISTOR	2SB1116 (AEP, UK, IT, G)			
Q812	8-729-422-57	TRANSISTOR	UN4111			
Q813	8-729-111-29	TRANSISTOR	2SD1616A-K			(EXCEPT AEP, UK, G, IT)
Q813	8-729-116-81	TRANSISTOR	NYD3T-TP (AEP, UK, IT, G)			
		< RESISTOR >				
R4	1-249-411-11	CARBON	330	5%	1/4W	
R5	1-249-411-11	CARBON	330	5%	1/4W	
R6	1-249-409-11	CARBON	220	5%	1/4W	
R7	1-249-411-11	CARBON	330	5%	1/4W	
R8	1-249-432-11	CARBON	18K	5%	1/4W	
R9	1-249-434-11	CARBON	27K	5%	1/4W	
R10	1-249-411-11	CARBON	330	5%	1/4W	
R11	1-249-411-11	CARBON	330	5%	1/4W	(AE2, UK2, IT, G)
R12	1-249-432-11	CARBON	18K	5%	1/4W	(AE2, UK2, IT, G)
R13	1-249-434-11	CARBON	27K	5%	1/4W	(AE2, UK2, IT, G)
R14	1-249-411-11	CARBON	330	5%	1/4W	(AE2, UK2, IT, G)
R15	1-249-414-11	CARBON	560	5%	1/4W	(EXCEPT AE2, UK2, G, IT)
R17	1-249-399-11	CARBON	33	5%	1/4W	
R18	1-249-429-11	CARBON	10K	5%	1/4W	(AEP, UK, EE, E3, EA, MY, SP, JE, HK)
R19	1-249-429-11	CARBON	10K	5%	1/4W	(AEP, UK, EE, E3, EA, MY, SP, JE, HK)
R20	1-247-903-00	CARBON	1M	5%	1/4W	(E3, EA, MY, SP, JE, HK)
R21-25	1-249-417-11	CARBON	1K	5%	1/4W	
R26	1-249-435-11	CARBON	33K	5%	1/4W	
R27	1-249-429-11	CARBON	10K	5%	1/4W	
R28	1-249-417-11	CARBON	1K	5%	1/4W	
R29	1-249-423-11	CARBON	3.3K	5%	1/4W	
R30	1-247-811-31	CARBON	150	5%	1/4W	
R31	1-247-807-31	CARBON	100	5%	1/4W	
R32	1-249-421-11	CARBON	2.2K	5%	1/4W	
R33-35	1-249-425-11	CARBON	4.7K	5%	1/4W	
R36	1-247-807-31	CARBON	100	5%	1/4W	
R37	1-249-429-11	CARBON	10K	5%	1/4W	
R38	1-249-437-11	CARBON	47K	5%	1/4W	
R41	1-249-437-11	CARBON	47K	5%	1/4W	

Ref. No.	Part No.	Description				Remark
R42	1-249-423-11	CARBON	3.3K	5%	1/4W	
R43	1-249-442-11	CARBON	510	5%	1/4W	
R44	1-247-807-31	CARBON	100	5%	1/4W	
R45	1-247-842-11	CARBON	3K	5%	1/4W	
R46	1-249-429-11	CARBON	10K	5%	1/4W	
R47	1-249-441-11	CARBON	100K	5%	1/4W	
R48	1-249-423-11	CARBON	3.3K	5%	1/4W	
R49	1-249-423-11	CARBON	3.3K	5%	1/4W	
R50	1-249-426-11	CARBON	5.6K	5%	1/4W	
R51	1-249-426-11	CARBON	5.6K	5%	1/4W	
R52	1-249-435-11	CARBON	33K	5%	1/4W	
R53	1-249-429-11	CARBON	10K	5%	1/4W	
R54	1-249-399-11	CARBON	33	5%	1/4W	(EXCEPT US, CND, AE1)
R55	1-249-399-11	CARBON	33	5%	1/4W	(US, CND, AE1)
R56	1-249-401-11	CARBON	47	5%	1/4W	
R92-94	1-249-429-11	CARBON	10K	5%	1/4W	(E3, EA, MY, SP, JE, HK)
R101	1-249-417-11	CARBON	1K	5%	1/4W	
R111	1-249-429-11	CARBON	10K	5%	1/4W	
R112	1-249-429-11	CARBON	10K	5%	1/4W	
R114	1-249-429-11	CARBON	10K	5%	1/4W	(E, EA, AU, MY, SP, MX, AR, JE, HK)
R128	1-249-441-11	CARBON	100K	5%	1/4W	
R135	1-249-441-11	CARBON	100K	5%	1/4W	
R136	1-249-417-11	CARBON	1K	5%	1/4W	(US, CND, AE1)
R137	1-249-417-11	CARBON	1K	5%	1/4W	(US, CND, AE1)
R140	1-249-441-11	CARBON	100K	5%	1/4W	
R144	1-249-415-11	CARBON	680	5%	1/4W	
R145	1-249-417-11	CARBON	1K	5%	1/4W	
R148	1-249-423-11	CARBON	3.3K	5%	1/4W	
R149	1-249-441-11	CARBON	100K	5%	1/4W	
R150	1-249-421-11	CARBON	2.2K	5%	1/4W	
R151	1-249-417-11	CARBON	1K	5%	1/4W	
R154	1-249-441-11	CARBON	100K	5%	1/4W	
R155	1-249-441-11	CARBON	100K	5%	1/4W	
R156	1-249-429-11	CARBON	10K	5%	1/4W	
R157	1-249-429-11	CARBON	10K	5%	1/4W	
R158	1-247-863-91	CARBON	22K	5%	1/4W	
R159	1-247-863-91	CARBON	22K	5%	1/4W	
R160	1-249-429-11	CARBON	10K	5%	1/4W	
R161	1-249-429-11	CARBON	10K	5%	1/4W	
R162	1-247-895-00	CARBON	470K	5%	1/4W	
R163	1-247-895-00	CARBON	470K	5%	1/4W	
R164	1-249-419-11	CARBON	1.5K	5%	1/4W	
R165	1-249-419-11	CARBON	1.5K	5%	1/4W	
R168	1-249-425-11	CARBON	4.7K	5%	1/4W	
R169	1-249-425-11	CARBON	4.7K	5%	1/4W	(EXCEPT EA)

MAIN

Ref. No.	Part No.	Description				Remark
R170	1-249-441-11	CARBON	100K	5%	1/4W	
R171	1-249-425-11	CARBON	4.7K	5%	1/4W	
R172	1-249-421-11	CARBON	2.2K	5%	1/4W	
R173	1-249-429-11	CARBON	10K	5%	1/4W	(EXCEPT E3, MY, SP, HK)
R174	1-249-425-11	CARBON	4.7K	5%	1/4W	
R175	1-249-421-11	CARBON	2.2K	5%	1/4W	
R176	1-249-429-11	CARBON	10K	5%	1/4W	
R180	1-249-441-11	CARBON	100K	5%	1/4W	
R181	1-249-429-11	CARBON	10K	5%	1/4W	
R182	1-249-429-11	CARBON	10K	5%	1/4W	
R183	1-249-413-11	CARBON	470	5%	1/4W	
R184	1-247-903-00	CARBON	1M	5%	1/4W	
R185	1-247-903-00	CARBON	1M	5%	1/4W	
R190	1-249-441-11	CARBON	100K	5%	1/4W	
R194	1-249-415-11	CARBON	680	5%	1/4W	
R195	1-249-417-11	CARBON	1K	5%	1/4W	
R198	1-249-423-11	CARBON	3.3K	5%	1/4W	
R199	1-249-441-11	CARBON	100K	5%	1/4W	
R300	1-249-429-11	CARBON	10K	5%	1/4W	
R301	1-249-429-11	CARBON	10K	5%	1/4W	
R304	1-249-437-11	CARBON	47K	5%	1/4W	
R305	1-249-425-11	CARBON	4.7K	5%	1/4W	
R308	1-249-435-11	CARBON	33K	5%	1/4W	
R309-315	1-247-807-31	CARBON	100	5%	1/4W	
R316	1-249-437-11	CARBON	47K	5%	1/4W	
R317	1-247-863-91	CARBON	22K	5%	1/4W	
R318-320	1-249-425-11	CARBON	4.7K	5%	1/4W	
R321-323	1-249-429-11	CARBON	10K	5%	1/4W	
R325	1-249-429-11	CARBON	10K	5%	1/4W	
R330-335	1-249-429-11	CARBON	10K	5%	1/4W	
R338-347	1-247-807-31	CARBON	100	5%	1/4W	
R348	1-249-413-11	CARBON	470	5%	1/4W	
R349	1-249-413-11	CARBON	470	5%	1/4W	
R364	1-249-429-11	CARBON	10K	5%	1/4W	
R373	1-247-863-91	CARBON	22K	5%	1/4W	(AEP, UK)
R373	1-249-429-11	CARBON	10K	5%	1/4W	(IT, G, E2, AU, MX, AR)
R373	1-249-431-11	CARBON	15K	5%	1/4W	(EE)
R373	1-249-423-11	CARBON	3.3K	5%	1/4W	(E3, EA, MY, SP, HK)
R373	1-249-418-11	CARBON	1.2K	5%	1/4W	(JE)
R374	1-249-429-11	CARBON	10K	5%	1/4W	(AEP, UK, IT, G, EA)
R374	1-249-423-11	CARBON	3.3K	5%	1/4W	(EE)
R374	1-247-863-91	CARBON	22K	5%	1/4W	(E2, MX, AR)
R374	1-249-431-11	CARBON	15K	5%	1/4W	(E3, AUS, MY, SP, JE, HK)
R375	1-249-423-11	CARBON	3.3K	5%	1/4W	
R376	1-249-429-11	CARBON	10K	5%	1/4W	
R378-381	1-249-429-11	CARBON	10K	5%	1/4W	
R401	1-249-430-11	CARBON	12K	5%	1/4W	
R402	1-249-431-11	CARBON	15K	5%	1/4W	
R403	1-249-423-11	CARBON	3.3K	5%	1/4W	
R404	1-249-421-11	CARBON	2.2K	5%	1/4W	
R405	1-249-419-11	CARBON	1.5K	5%	1/4W	
R406	1-249-417-11	CARBON	1K	5%	1/4W	
R407	1-249-437-11	CARBON	47K	5%	1/4W	
R408	1-249-417-11	CARBON	1K	5%	1/4W	
R409	1-247-863-91	CARBON	22K	5%	1/4W	
R420	1-249-432-11	CARBON	18K	5%	1/4W	
R421	1-249-429-11	CARBON	10K	5%	1/4W	
R422	1-249-429-11	CARBON	10K	5%	1/4W	
R423	1-249-437-11	CARBON	47K	5%	1/4W	
R424-429	1-249-429-11	CARBON	10K	5%	1/4W	
R430	1-247-866-11	CARBON	30K	5%	1/4W	
R431	1-247-882-11	CARBON	130K	5%	1/4W	
R451	1-249-430-11	CARBON	12K	5%	1/4W	
R452	1-249-431-11	CARBON	15K	5%	1/4W	
R453	1-249-423-11	CARBON	3.3K	5%	1/4W	
R454	1-249-421-11	CARBON	2.2K	5%	1/4W	
R455	1-249-419-11	CARBON	1.5K	5%	1/4W	
R456	1-249-417-11	CARBON	1K	5%	1/4W	
R457	1-249-437-11	CARBON	47K	5%	1/4W	
R458	1-249-417-11	CARBON	1K	5%	1/4W	
R459	1-247-863-91	CARBON	22K	5%	1/4W	
R480	1-247-864-11	CARBON	24K	5%	1/4W	
R601	1-247-889-00	CARBON	270K	5%	1/4W	
R602	1-249-404-00	CARBON	82	5%	1/4W	
R603	1-247-882-11	CARBON	130K	5%	1/4W	
R604	1-247-850-11	CARBON	6.2K	5%	1/4W	
R605	1-247-889-00	CARBON	270K	5%	1/4W	
R606	1-249-404-00	CARBON	82	5%	1/4W	
R607	1-247-863-91	CARBON	22K	5%	1/4W	
R608	1-247-882-11	CARBON	130K	5%	1/4W	
R609	1-247-850-11	CARBON	6.2K	5%	1/4W	
R610	1-249-429-11	CARBON	10K	5%	1/4W	(US, CND, AE1)
R610	1-249-417-11	CARBON	1K	5%	1/4W	(EXCEPT US, CND, AE1)
R611	1-249-429-11	CARBON	10K	5%	1/4W	(US, CND, AE1)

Ref. No.	Part No.	Description				Remark
R611	1-249-417-11	CARBON	1K	5%	1/4W	(EXCEPT US, CND, AE1)
R612	1-249-429-11	CARBON	10K	5%	1/4W	(US, CND, AE1)
R612	1-249-417-11	CARBON	1K	5%	1/4W	(EXCEPT US, CND, AE1)
R613	1-249-429-11	CARBON	10K	5%	1/4W	(US, CND, AE1)
R613	1-249-417-11	CARBON	1K	5%	1/4W	(EXCEPT US, CND, AE1)
R614	1-249-429-11	CARBON	10K	5%	1/4W	(US, CND, AE1)
R614	1-249-417-11	CARBON	1K	5%	1/4W	(EXCEPT US, CND, AE1)
R620	1-249-430-11	CARBON	12K	5%	1/4W	
R621	1-249-437-11	CARBON	47K	5%	1/4W	(EXCEPT E3, EA, MY, HK)
R622	1-249-437-11	CARBON	47K	5%	1/4W	(EXCEPT E3, EA, MY, HK)
R623	1-249-429-11	CARBON	10K	5%	1/4W	(EXCEPT E3, EA, MY, HK)
R624	1-249-429-11	CARBON	10K	5%	1/4W	(EXCEPT E3, EA, MY, HK)
R630	1-249-430-11	CARBON	12K	5%	1/4W	
R651	1-247-889-00	CARBON	270K	5%	1/4W	
R652	1-249-404-00	CARBON	82	5%	1/4W	
R653	1-247-882-11	CARBON	130K	5%	1/4W	
R654	1-247-850-11	CARBON	6.2K	5%	1/4W	
R655	1-247-889-00	CARBON	270K	5%	1/4W	
R656	1-249-404-00	CARBON	82	5%	1/4W	
R657	1-247-863-91	CARBON	22K	5%	1/4W	
R658	1-247-882-11	CARBON	130K	5%	1/4W	
R659	1-247-850-11	CARBON	6.2K	5%	1/4W	
R660	1-249-429-11	CARBON	10K	5%	1/4W	
R661	1-249-424-11	CARBON	3.9K	5%	1/4W	
R662	1-249-389-11	CARBON	4.7	5%	1/4W	
R663	1-249-434-11	CARBON	27K	5%	1/4W	
R664	1-249-434-11	CARBON	27K	5%	1/4W	
R665	1-249-430-11	CARBON	12K	5%	1/4W	
R670	1-249-427-11	CARBON	6.8K	5%	1/4W	
R671	1-249-418-11	CARBON	1.2K	5%	1/4W	
R680	1-249-409-11	CARBON	220	5%	1/4W	
R681	1-249-409-11	CARBON	220	5%	1/4W	
⚠R801	1-219-122-91	FUSIBLE	0.33	5%	1/4W	F
⚠R802	1-219-122-91	FUSIBLE	0.33	5%	1/4W	F
R803	1-249-429-11	CARBON	10K	5%	1/4W	
R804	1-249-429-11	CARBON	10K	5%	1/4W	
⚠R805	1-219-122-91	FUSIBLE	0.33	5%	1/4W	F
R806	1-249-417-11	CARBON	1K	5%	1/4W	
R808	1-249-417-11	CARBON	1K	5%	1/4W	
⚠R814	1-219-122-91	FUSIBLE	0.33	5%	1/4W	F

Ref. No.	Part No.	Description				Remark
R820	1-249-421-11	CARBON	2.2K	5%	1/4W	
R821	1-249-409-11	CARBON	220	5%	1/4W	
R822	1-249-429-11	CARBON	10K	5%	1/4W	
R823	1-249-421-11	CARBON	2.2K	5%	1/4W	
R824	1-249-429-11	CARBON	10K	5%	1/4W	
R825	1-249-441-11	CARBON	100K	5%	1/4W	
R826	1-247-791-91	CARBON	22	5%	1/4W	
R827	1-249-435-11	CARBON	33K	5%	1/4W	
R828	1-249-425-11	CARBON	4.7K	5%	1/4W	
R829	1-249-425-11	CARBON	4.7K	5%	1/4W	
R830	1-249-409-11	CARBON	220	5%	1/4W	
R831	1-249-439-11	CARBON	68K	5%	1/4W	
R832	1-249-389-11	CARBON	4.7	5%	1/4W	(AE2, UK, IT, G)
R833	1-249-389-11	CARBON	4.7	5%	1/4W	(AE2, UK, IT, G)
R834	1-249-389-11	CARBON	4.7	5%	1/4W	(EXCEPT US, CND, AE1)
R835	1-249-409-11	CARBON	220	5%	1/4W	
R838	1-249-429-11	CARBON	10K	5%	1/4W	
R840	1-249-417-11	CARBON	1K	5%	1/4W	
R841	1-249-417-11	CARBON	1K	5%	1/4W	
R881	1-249-437-11	CARBON	47K	5%	1/4W	
R882	1-249-389-11	CARBON	4.7	5%	1/4W	(AE2, UK, IT, G)
R883	1-249-389-11	CARBON	4.7	5%	1/4W	(AE2, UK, IT, G)
R884	1-249-389-11	CARBON	4.7	5%	1/4W	(EXCEPT US, CND, AE1)
R890	1-249-417-11	CARBON	1K	5%	1/4W	
R891	1-249-417-11	CARBON	1K	5%	1/4W	
R944	1-249-417-11	CARBON	1K	5%	1/4W	

< VARIABLE RESISTOR >

RV41	1-241-765-11	RES, ADJ, CARBON 22K (AM TUNE LEVEL)
RV42	1-241-630-11	RES, ADJ, CARBON 10K (FM TUNE LEVEL)
RV401	1-241-630-11	RES, ADJ, CARBON 10K (REC LEVEL (R))
RV451	1-241-630-11	RES, ADJ, CARBON 10K (REC LEVEL (L))
RV601	1-241-630-11	RES, ADJ, CARBON 10K (PB LEVEL (L))
RV602	1-241-630-11	RES, ADJ, CARBON 10K (PB LEVEL (L))
RV620	1-241-767-21	RES, ADJ, CARBON 100K (REC BIAS (L))
RV630	1-241-767-21	RES, ADJ, CARBON 100K (REC BIAS (R))
RV651	1-241-630-11	RES, ADJ, CARBON 10K (PB LEVEL (R))
RV652	1-241-630-11	RES, ADJ, CARBON 10K (PB LEVEL (R))
RV670	1-241-762-11	RES, ADJ, CARBON 2.2K (TAPE SPEED)

< RELAY >

RY801	1-515-921-11	RELAY (12V)

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

MAIN PANEL

Ref.No.	Part No.	Description	Remark
		< TRANSFORMER >	
T1	1-409-505-11	COIL (ANT. SW3) (E3, EA, MY, SP, JE, HK)	
T2	1-402-960-11	COIL (OSC SW3) (E3, EA, MY, SP, JE, HK)	
T601	1-433-349-11	TRANSFORMER, BIAS OSCILLATION	
		< TERMINAL >	
TB101	1-537-240-31	TERMINAL BOARD (SPEAKER)	
		< TERMINAL >	
TM1	1-537-238-21	TERMINAL BOARD (ANTENNA)	(EXCEPY AEP, UK, IT, G, EE)
TM1	1-537-488-11	TERMINAL BOARD (ANTENNA)	(AEP, UK, IT, G, EE)
		< VIBRATOR >	
X21	1-578-785-11	VIBRATOR, CRYSTAL (4.5MHz)	
X41	1-760-220-21	FILTER, CERAMIC (10.7MHz)	
X42	1-527-981-00	FILTER, CERAMIC (450kHz)	
X43	1-577-075-11	OSCILLATOR, CERAMIC (19MHz)	
X301	1-579-125-11	VIBRATOR, CERAMIC (8MHz)	
X302	1-567-098-41	VIBRATOR, CRYSTAL (32.768KHz)	
**********			
*	A-4377-401-A	PANEL BOARD, COMPLETE (E2, AUS, MX, AR)	
*	A-4377-410-A	PANEL BOARD, COMPLETE (US, CND, AE1, EE)	
*	A-4377-411-A	PANEL BOARD, COMPLETE (AE2, UK, IT, G)	
*	A-4378-577-A	PANEL BOARD, COMPLETE	(E3, EA, MY, SP, JE, HK)
		**********	
	4-932-810-21	CUSHION (FL)	
*	4-970-711-01	HOLDER, FL TUBE	
		< CAPACITOR >	

C501	1-126-964-11	ELECT	10uF	20%	50V
C502	1-162-282-31	CERAMIC	100PF	10%	50V
C503	1-126-967-11	ELECT	47uF	20%	50V
C504	1-162-306-11	CERAMIC	0.01uF	30%	16V
C505	1-162-306-11	CERAMIC	0.01uF	30%	16V
C508	1-162-294-31	CERAMIC	0.001uF	10%	50V
C509	1-162-294-31	CERAMIC	0.001uF	10%	50V
C510	1-162-294-31	CERAMIC	0.001uF	10%	50V
C511-546					
	1-162-286-21	CERAMIC	220PF	10%	50V
C550	1-162-306-11	CERAMIC	0.01uF	30%	16V
C5001	1-164-159-11	CERAMIC	0.1uF		50V (US, CND, AE1, EE)

		< CONNECTOR >	
* CN501	1-568-856-11	SOCKET, CONNECTOR 13P	
		< DIODE >	
D510	8-719-046-36	LED SEL5921A-TH15 (CD)	
D511	8-719-046-36	LED SEL5921A-TH15 (TUNER)	
D512	8-719-301-59	LED SEL2910A-TP6 (ROCK)	
D513	8-719-301-59	LED SEL2910A-TP6 (POPS)	
D514	8-719-301-59	LED SEL2910A-TP6 (JAZZ)	
D515	8-719-046-36	LED SEL5921A-TH15 (DOLBY NR)	
D522	8-719-301-59	LED SEL2910A-TP6 (ROCK)	
D523	8-719-301-59	LED SEL2910A-TP6 (POPS)	
D524	8-719-301-59	LED SEL2910A-TP6 (JAZZ)	
D529	8-719-011-69	DIODE UZ-5.6BSC-TA	
		< INDICATOR TUBE >	
FL501	1-517-364-11	INDICATOR TUBE, FLUORESCENT	
		< IC >	
IC501	8-752-862-43	IC CXP82612-006Q	
IC502	8-749-923-43	IC GP1U57XB	
		< TRANSISTOR >	
Q510-515			
	8-729-117-59	TRANSISTOR NYA2S-TP	(US, CND, AEP, UK, IT, G, EE)
Q510-515			
	8-729-119-76	TRANSISTOR 2SA1175-HFE	(E, EA, AUS, MY, SP, MX, AR, JE, HK)
		< RESISTOR >	
R501-506			
	1-249-429-11	CARBON	10K 5% 1/4W
R509	1-249-429-11	CARBON	10K 5% 1/4W
R510	1-249-429-11	CARBON	10K 5% 1/4W
R511	1-249-419-11	CARBON	1.5K 5% 1/4W
R512	1-247-811-31	CARBON	150 5% 1/4W
R513	1-249-410-11	CARBON	270 5% 1/4W
R514	1-249-408-11	CARBON	180 5% 1/4W
R515	1-249-409-11	CARBON	220 5% 1/4W
R524	1-249-419-11	CARBON	1.5K 5% 1/4W
R525	1-247-811-31	CARBON	150 5% 1/4W
R526	1-249-410-11	CARBON	270 5% 1/4W
R527	1-249-408-11	CARBON	180 5% 1/4W
R528	1-249-409-11	CARBON	220 5% 1/4W
R529	1-249-411-11	CARBON	330 5% 1/4W
R530	1-249-413-11	CARBON	470 5% 1/4W
R531	1-249-414-11	CARBON	560 5% 1/4W
R532	1-249-416-11	CARBON	820 5% 1/4W
R533	1-249-418-11	CARBON	1.2K 5% 1/4W
R534	1-249-420-11	CARBON	1.8K 5% 1/4W
R537	1-249-419-11	CARBON	1.5K 5% 1/4W

Ref.No.	Part No.	Description			Remark
R538	1-247-811-31	CARBON	150	5%	1/4W
R539	1-249-410-11	CARBON	270	5%	1/4W
R540	1-249-408-11	CARBON	180	5%	1/4W
R541	1-249-409-11	CARBON	220	5%	1/4W
R542	1-249-411-11	CARBON	330	5%	1/4W
R543	1-249-413-11	CARBON	470	5%	1/4W
R544	1-249-414-11	CARBON	560	5%	1/4W
R563	1-247-903-00	CARBON	1M	5%	1/4W
R564-568	1-247-807-31	CARBON	100	5%	1/4W
R582-588	1-249-409-11	CARBON	220	5%	1/4W
R589	1-249-421-11	CARBON	2.2K	5%	1/4W
R590-592	1-247-807-31	CARBON	100	5%	1/4W
R593	1-249-429-11	CARBON	10K	5%	1/4W
R594	1-249-409-11	CARBON	220	5%	1/4W
R601-603	1-249-409-11	CARBON	220	5%	1/4W
		< SWITCH >			
S501	1-467-869-11	ENCODER, ROTARY (VOLUME)			
S503	1-572-184-11	SWITCH, KEYBOARD (TUNER/BAND)			
S504	1-572-184-11	SWITCH, KEYBOARD (FUNCTION)			
S505	1-572-184-11	SWITCH, KEYBOARD (▷II)			
S506	1-572-184-11	SWITCH, KEYBOARD (■)			
S507	1-572-184-11	SWITCH, KEYBOARD (OPEN/CLOSE⏏)			
S516	1-572-184-11	SWITCH, KEYBOARD (CONTINUE)			
S517	1-572-184-11	SWITCH, KEYBOARD (SHUFFLE)			
S518	1-572-184-11	SWITCH, KEYBOARD (PROGRAM)			
S519	1-572-184-11	SWITCH, KEYBOARD (TUNING MODE)			
S520	1-572-184-11	SWITCH, KEYBOARD (MONO)			
S521	1-572-184-11	SWITCH, KEYBOARD (TUNER MEMORY)			
S522	1-572-184-11	SWITCH, KEYBOARD (MULTI CONTROLLER ▷▷I+)			
S523	1-572-184-11	SWITCH, KEYBOARD (MULTI CONTROLLER -I◁◁)			
S524	1-572-184-11	SWITCH, KEYBOARD (ENTER/NEXT)			
S525	1-572-184-11	SWITCH, KEYBOARD (DISPLAY)			
S526	1-572-184-11	SWITCH, KEYBOARD (CLOCK SET)			
S529	1-572-184-11	SWITCH, KEYBOARD (POWER)			
S530	1-572-184-11	SWITCH, KEYBOARD (DOLBY NR)			
S531	1-572-184-11	SWITCH, KEYBOARD (KARAOKE PON)			
S532	1-572-184-11	SWITCH, KEYBOARD (DBFB)			
S533	1-572-184-11	SWITCH, KEYBOARD (PRESET EQUALIZER (JAZZ))			
S534	1-572-184-11	SWITCH, KEYBOARD (PRESET EQUALIZER (POPS))			
S535	1-572-184-11	SWITCH, KEYBOARD (PRESET EQUALIZER (ROCK))			
S536	1-572-184-11	SWITCH, KEYBOARD (SLEEP)			

Ref.No.	Part No.	Description			Remark
		< VIBRATOR >			
X501	1-567-819-11	VIBRATOR, CERAMIC (4MHz)			
**********					
*	1-655-383-11	POWER 2 BOARD (US,CND)			
		**********			
		< CAPACITOR >			
C971	1-124-925-11	ELECT	2.2uF	20%	100V (US,CND)
C972	1-162-282-31	CERAMIC	100PF	10%	50V (US,CND)
C973	1-162-282-31	CERAMIC	100PF	10%	50V (US,CND)
C974	1-162-284-31	CERAMIC	150PF	10%	50V (US,CND)
C975	1-128-551-11	ELECT	22uF	20%	50V (US,CND)
C976	1-126-964-11	ELECT	10uF	20%	50V (US,CND)
C977	1-126-964-11	ELECT	10uF	20%	50V (US,CND)
C980	1-162-306-11	CERAMIC	0.01uF	30%	16V (US,CND)
C981	1-124-925-11	ELECT	2.2uF	20%	100V (US,CND)
C982	1-162-282-31	CERAMIC	100PF	10%	50V (US,CND)
C983	1-162-282-31	CERAMIC	100PF	10%	50V (US,CND)
C984	1-162-284-31	CERAMIC	150PF	10%	50V (US,CND)
C985	1-128-551-11	ELECT	22uF	20%	50V (US,CND)
C986	1-126-964-11	ELECT	10uF	20%	50V (US,CND)
C987	1-126-964-11	ELECT	10uF	20%	50V (US,CND)
		< CONNECTOR >			
CN901S	1-691-770-11	PLUG (MICRO CONNECTOR) 8P			(US,CND)
CN902S	1-691-765-11	PLUG (MICRO CONNECTOR) 3P			(US,CND)
		< IC >			
IC971	8-759-502-31	IC SI-18751			(US,CND)
IC981	8-759-502-31	IC SI-18751			(US,CND)
		< RESISTOR >			
R971	1-247-903-00	CARBON	1M	5%	1/4W (US,CND)
R972	1-249-417-11	CARBON	1K	5%	1/4W (US,CND)
R973	1-249-437-11	CARBON	47K	5%	1/4W (US,CND)
R974	1-249-435-11	CARBON	33K	5%	1/4W (US,CND)
R975	1-249-417-11	CARBON	1K	5%	1/4W (US,CND)
R981	1-247-903-00	CARBON	1M	5%	1/4W (US,CND)
R982	1-249-417-11	CARBON	1K	5%	1/4W (US,CND)
R983	1-249-437-11	CARBON	47K	5%	1/4W (US,CND)
R984	1-249-435-11	CARBON	33K	5%	1/4W (US,CND)
R985	1-249-417-11	CARBON	1K	5%	1/4W (US,CND)
**********					

POWER STK

Ref. No.	Part No.	Description			Remark
*	A-4377-402-A	POWER STK BOARD, COMPLETE (E, EA, AUS, MY, SP, MX, AR, JE, HK)			
*	A-4377-412-A	POWER STK BOARD, COMPLETE (AE1, EE)			
*	A-4377-413-A	POWER STK BOARD, COMPLETE (AE2, UK, IT, G)			
		**********			
*	4-942-204-01	PLATE, GROUND (EXCEPT US, CND)			
		< CAPACITOR >			
C901	1-124-927-11	ELECT	4.7uF	20% 100V	(EXCEPT US, CND)
C902	1-162-284-31	CERAMIC	150PF	10% 50V	(EXCEPT US, CND)
C903	1-162-286-21	CERAMIC	220PF	10% 50V	(EXCEPT US, CND)
C904	1-126-967-11	ELECT	47uF	20% 50V	(EXCEPT US, CND)
C905	1-126-967-11	ELECT	47uF	20% 50V	(EXCEPT US, CND)
C906	1-124-122-11	ELECT	100uF	20% 50V	(EXCEPT US, CND)
C908	1-128-551-11	ELECT	22uF	20% 50V	(EXCEPT US, CND)
C910	1-136-495-11	FILM	0.068uF	5% 50V	(EXCEPT US, CND)
C911	1-136-495-11	FILM	0.068uF	5% 50V	(EXCEPT US, CND)
C920	1-126-923-11	ELECT	220uF	20% 10V	(EXCEPT US, CND)
C925	1-162-284-31	CERAMIC	150PF	10% 50V	(EXCEPT US, CND)
C951	1-124-927-11	ELECT	4.7uF	20% 100V	(EXCEPT US, CND)
C952	1-162-284-31	CERAMIC	150PF	10% 50V	(EXCEPT US, CND)
C953	1-162-286-21	CERAMIC	220PF	10% 50V	(EXCEPT US, CND)
C954	1-126-967-11	ELECT	47uF	20% 50V	(EXCEPT US, CND)
C955	1-126-967-11	ELECT	47uF	20% 50V	(EXCEPT US, CND)
C956	1-124-122-11	ELECT	100uF	20% 50V	(EXCEPT US, CND)
C960	1-136-495-11	FILM	0.068uF	5% 50V	(EXCEPT US, CND)
C961	1-136-495-11	FILM	0.068uF	5% 50V	(EXCEPT US, CND)
		< CONNECTOR >			
CN901	1-691-770-11	PLUG (MICRO CONNECTOR)	8P		(EXCEPT US, CND)
CN902	1-691-765-11	PLUG (MICRO CONNECTOR)	3P		(EXCEPT US, CND)

Ref. No.	Part No.	Description			Remark
		< DIODE >			
D901-903					
	8-719-987-63	DIODE	1N4148M		(EXCEPT US, CND)
D951	8-719-987-63	DIODE	1N4148M		(EXCEPT US, CND)
		< IC >			
IC901	8-749-920-19	IC	STK4122MK2		(AEP, UK, IT, G, EE)
IC901	8-749-941-52	IC	STK4152MK2		(E, EA, AUS, MY, SP, MX, AR, JE, HK)
		< TRANSISTOR >			
Q901	8-729-111-29	TRANSISTOR	2SD1616A-K		(E, EA, AUS, MY, SP, MX, AR, JE, HK)
Q901	8-729-116-81	TRANSISTOR	NYD3T-TP		(AEP, UK, IT, G, EE)
Q951	8-729-111-29	TRANSISTOR	2SD1616A-K		(E, EA, AUS, MY, SP, MX, AR, JE, HK)
Q951	8-729-116-81	TRANSISTOR	NYD3T-TP		(AEP, UK, IT, G, EE)
		< RESISTOR >			
R901	1-249-417-11	CARBON	1K	5% 1/4W	(EXCEPT US, CND)
R902	1-249-437-11	CARBON	47K	5% 1/4W	(EXCEPT US, CND)
R903	1-249-417-11	CARBON	1K	5% 1/4W	(EXCEPT US, CND)
R904	1-249-437-11	CARBON	47K	5% 1/4W	(EXCEPT US, CND)
R905-908					
	1-249-425-11	CARBON	4.7K	5% 1/4W	(EXCEPT US, CND)
⚠R909	1-212-881-11	FUSIBLE	100	5% 1/4W F	(EXCEPT US, CND)
⚠R910	1-217-151-00	RES, METAL PLATE		0.22	(EXCEPT US, CND)
R911	1-249-417-11	CARBON	1K	5% 1/4W	(EXCEPT US, CND)
R912	1-249-431-11	CARBON	15K	5% 1/4W	(EXCEPT US, CND)
R913	1-249-441-11	CARBON	100K	5% 1/4W	(EXCEPT US, CND)
R914-917					
	1-249-421-11	CARBON	2.2K	5% 1/4W	(EXCEPT US, CND)
R918	1-247-791-91	CARBON	22	5% 1/4W	(EXCEPT US, CND)
R919	1-247-791-91	CARBON	22	5% 1/4W	(EXCEPT US, CND)
R927	1-249-429-11	CARBON	10K	5% 1/4W	(EXCEPT US, CND)
R928	1-249-441-11	CARBON	100K	5% 1/4W	(EXCEPT US, CND)
R930	1-249-429-11	CARBON	10K	5% 1/4W	(EXCEPT US, CND)
R942	1-249-429-11	CARBON	10K	5% 1/4W	(EXCEPT US, CND)
⚠R943	1-217-637-00	FUSIBLE	1	5% 1/4W F	(EXCEPT US, CND)
⚠R944	1-217-637-00	FUSIBLE	1	5% 1/4W F	(EXCEPT US, CND)
R951	1-249-417-11	CARBON	1K	5% 1/4W	(EXCEPT US, CND)
R952	1-249-437-11	CARBON	47K	5% 1/4W	(EXCEPT US, CND)
R953	1-249-417-11	CARBON	1K	5% 1/4W	(EXCEPT US, CND)
R954	1-249-437-11	CARBON	47K	5% 1/4W	(EXCEPT US, CND)
R955-958					
	1-249-425-11	CARBON	4.7K	5% 1/4W	(EXCEPT US, CND)
⚠R959	1-212-881-11	FUSIBLE	100	5% 1/4W F	(EXCEPT US, CND)
⚠R960	1-217-151-00	RES, METAL PLATE		0.22	(EXCEPT US, CND)
R961	1-249-417-11	CARBON	1K	5% 1/4W	(EXCEPT US, CND)

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	Part No.	Description	Remark
R962	1-249-431-11	CARBON 15K 5% 1/4W	(EXCEPT US, CND)
R963	1-249-441-11	CARBON 100K 5% 1/4W	(EXCEPT US, CND)
R968	1-247-791-91	CARBON 22 5% 1/4W	(EXCEPT US, CND)
R969	1-247-791-91	CARBON 22 5% 1/4W	(EXCEPT US, CND)
**********			
*	1-647-784-11	SW (A) BOARD	
		**********	
		< CONNECTOR >	
* CN1001	1-568-943-11	PIN, CONNECTOR 5P	
		< SWITCH >	
S2001	1-571-736-11	SWITCH, LEAF (B MOTOR)	
S2002	1-571-736-11	SWITCH, LEAF (B PLAY)	
S2003	1-571-736-11	SWITCH, LEAF (B REC)	
S2004	1-692-997-11	SWITCH, LEAF (B CrO_2)	
**********			
*	1-647-785-11	SW (B) BOARD	
		**********	
		< CONNECTOR >	
* CN2001	1-568-944-11	PIN, CONNECTOR 6P	
		< SWITCH >	
S1001	1-571-736-11	SWITCH, LEAF (A MOTOR)	
S1002	1-571-736-11	SWITCH, LEAF (A PLAY)	
S1004	1-692-997-11	SWITCH, LEAF (A CrO_2)	
**********			
*	1-655-385-11	TRANS BOARD	
		**********	
	1-533-217-31	HOLDER, FUSE	(US, CND, E, EA, SP, AR, JE, HK)
		< CONNECTOR >	
* CN801	1-564-526-11	PLUG, CONNECTOR 11P	
CN851	1-564-321-00	PIN, CONNECTOR 2P	
		< FUSE >	
⚠F801	1-532-286-00	FUSE 2.5A 250V	(E, EA, SP, AR, JE, HK)
⚠F801	1-576-105-11	FUSE 2.5A 250V	(US, CND)
⚠F802	1-532-299-00	FUSE 5A 250V	(EXCEPT US, CND, MX)
		< RESISTOR >	
⚠R800	1-202-725-00	SOLID 3.3M 10% 1/2W	(US, CND)

Ref. No.	Part No.	Description	Remark
		< SWITCH >	
⚠S801	1-572-675-11	SWITCH, POWER (VOLTAGE SELECTOR)	(E, EA, SP, AR, JE, HK)
**********			
		MISCELLANEOUS	
		**********	
⚠10	1-575-651-11	CORD, POWER	(AEP, IT, G, EE, EA, MY, SP, AR, HK)
⚠10	1-575-653-11	CORD, POWER	(E, MX, JE)
⚠10	1-690-608-11	CORD, POWER	(AUS)
⚠10	1-690-609-21	CORD, POWER	(US, CND)
⚠10	1-751-520-21	CORD, POWER	(UK)
⚠11	1-569-007-11	ADAPTER, CONVERSION 2P	(E3, JE)
⚠12	1-569-008-11	ADAPTER, CONVERSION 2P	(EA, MY, SP)
⚠13	1-770-019-11	ADAPTOR, CONVERSION HK	
67	1-590-036-31	WIRE, FLAT TYPE (13 CORE)	
77	1-654-751-11	PC BOARD, FLEXIBLE	(MX, AR)
77	1-654-751-21	PC BOARD, FLEXIBLE	(EXCEPT MX, AR)
402	1-452-719-11	MAGNET ASSY	
⚠451	8-848-367-11	DEVICE, OPTICAL KSS-213B/K-N	(US, CND, EE, E, EA, MY, SP, JE, HK)
⚠451	8-848-376-01	DEVICE, OPTICAL KSS-213B/S-N	(AEP, UK, IT, G, AUS, MX, AR)
⚠451	8-848-379-01	DEVICE, OPTICAL KSS-213BA/F-N	(US, CND, EE, E, EA, MY, SP, JE, HK)
452	1-769-069-11	WIRE (FLAT TYPE) (16 CORE)	
HE901	1-543-673-11	HEAD, MAGNETIC (ERASE) (DECK B)	
HP901	1-543-319-11	HEAD, MAGNETIC (PB) (DECK A)	
HRP901	1-543-319-11	HEAD, MAGNETIC (REC/PB) (DECK B)	
M101	X-4917-523-4	MOTOR ASSY (SPINDLE)	
M102	X-4917-504-1	MOTOR ASSY (SLED)	
M901	X-3362-377-1	MOTOR (WH) ASSY (REEL/CAPSTAN)	
M903	A-4604-363-A	MOTOR (L) ASSY	
⚠T801	1-427-798-11	TRANSFORMER, POWER	(US, CND)
⚠T801	1-427-799-11	TRANSFORMER, POWER	(AEP, UK, IT, G, EE)
⚠T801	1-427-800-11	TRANSFORMER, POWER	(E, EA, AUS, MY, SP, MX, AR, JE, HK)
**********			

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	Part No.	Description	Remark
		ACCESSORIES & PACKING MATERIALS	
		**********	
	1-473-039-11	COMMANDER, STANDARD (RM-S22) (UK)	
	1-501-374-11	ANTENNA, LOOP (UK)	
	1-501-594-11	ANTENNA (FM) (UK)	
	3-798-356-11	MANUAL, INSTRUCTION (ENGLISH) (UK)	
	4-941-762-01	COVER, BATTERY (FOR RM-S22) (UK)	
*	4-972-969-01	CUSHION (FRONT)	
*	4-972-970-01	CUSHION (REAR)	
	4-972-979-01	INDIVIDUAL CARTON (UK)	

****

****
HARDWARE LIST
****

#1	7-685-646-79	SCREW +BVTP 3×8 TYPE2 N-S
#2	7-685-650-79	SCREW +BVTP 3×16 TYPE2 IT-3
#3	7-682-548-04	SCREW +BVTT 3×8 (S)
#4	7-685-647-79	SCREW +BVTP 3×10 TYPE2 N-S
#5	7-685-645-11	SCREW +BVTP 3×6
#6	7-685-103-19	SCREW +P 2×5 TYPE2 NON-SLIT
#7	7-621-775-20	SCREW +B 2.6×5
#8	7-685-135-19	SCREW +BTP 2.6×10 TYPE2 N-S
#9	7-623-921-01	RING, RETAINING, CAPSTAN
#10	7-685-133-19	SCREW +P 2.6×6 TYPE2
#11	7-688-001-01	W 2, SMALL
#12	7-621-255-15	SCREW +P 2×3

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

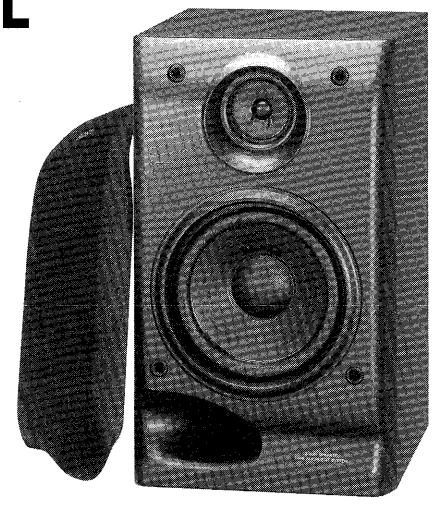
9-960-084-12
(Including 9-960-084-81)

Sony Corporation
Consumer A&V Products Company
Home A&V Products Div.

English
96B02014-1(2)
Printed in Japan
©1995.2
Published by Home A&V Products Div.
Quality Engineering Dept.

SS-H70/H501

SERVICE MANUAL



US Model
AEP Model
UK Model
E Model
Australian Model
Tourist Model

This set is the speaker system in
FH-A40K/CX35 and MHC-501/701/G50/G500.

SPECIFICATIONS

Speaker system	2-way, Bass reffer type
Speaker unit	Woofer : 14 cm (5 5/8 in.), cone type
	Tweeter : 5 cm (2 in.), cone type
Sensitivity	87 dm/W/m
Effective frequency range	
	65 Hz to 20 kHz
Rated impedance	6 ohms
Dimensions	195 × 325 × 250 mm (w/h/d)
	(7 3/4 × 12 7/8 × 9 7/8 in.)
Mass	Approx. 3.3 kg
	(7 lb 4 oz.) net per speaker

Design and specifications are subject to change without notice.

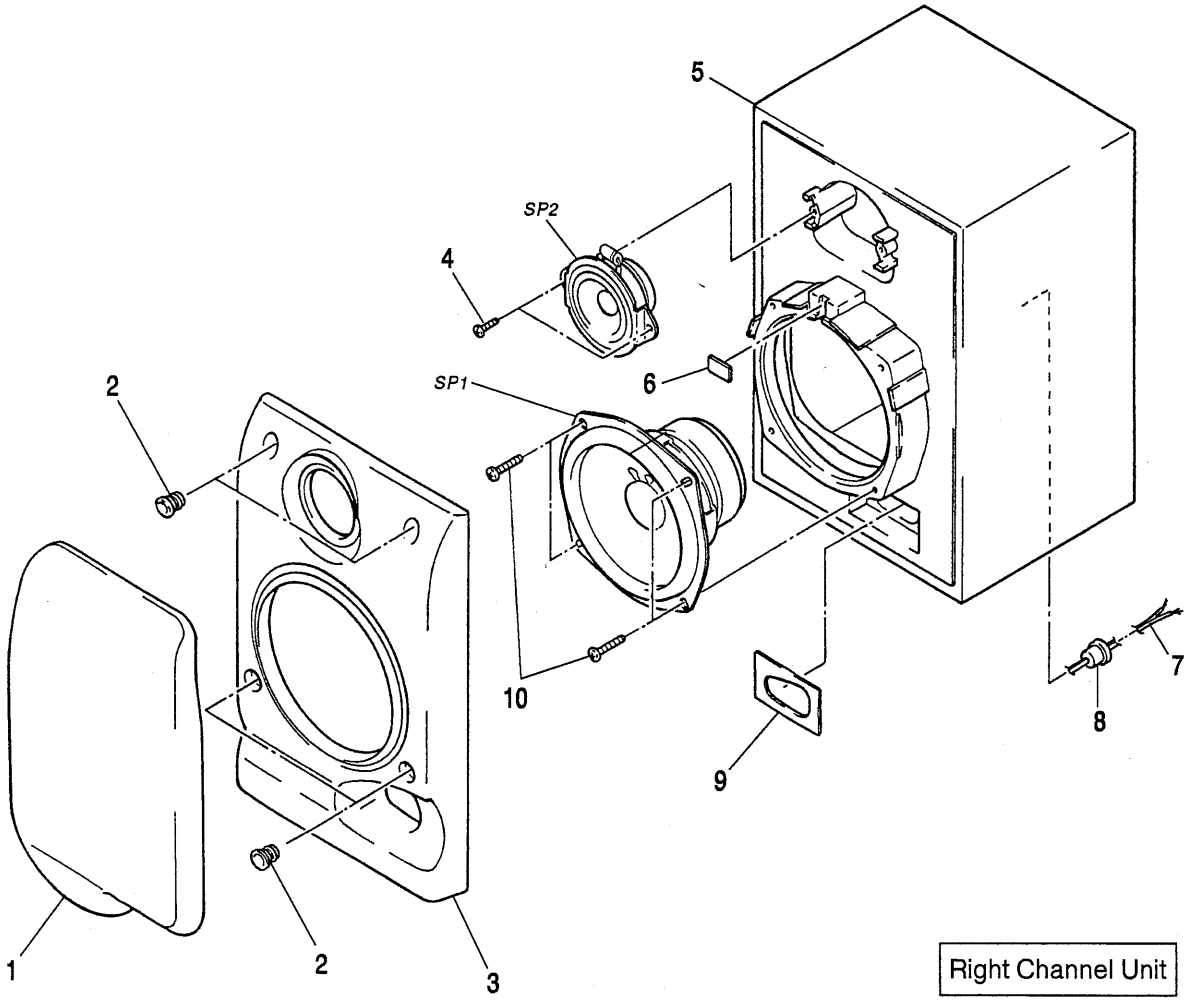
SPEAKER SYSTEM

SONY®

EXPLODED VIEW AND PARTS LIST

NOTE :

- Items marked " * "are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.



Right Channel Unit

Ref. No.	Part No.	Description	Remark
1	X-4945-493-1	FRAME (L) ASSY, GRILLE	
1	X-4945-494-1	FRAME (R) ASSY, GRILLE	
2	4-951-733-01	CATCHER	
3	4-971-332-01	PANEL (L), FRONT	
3	4-971-329-01	PANEL (R), FRONT	
4	7-685-646-21	SCREW +BVTP 3×8 TYPE 2 SLIT	
* 5	A-4361-275-A	CABINET (L) ASSY, SPEAKER (H70)	
* 5	A-4361-295-A	CABINET (R) ASSY, SPEAKER (H70)	
* 5	A-4361-422-A	CABINET (L) ASSY, SPEAKER (H501)	
* 5	A-4361-424-A	CABINET (R) ASSY, SPEAKER (H501)	
* 6	4-971-211-01	PACKING	
7	1-574-792-11	CORD, SPEAKER	
8	4-942-138-01	CLAMP	
9	9-911-840-XX	PACKING	
10	4-874-614-11	SCREW +BVTP 3.5×14	
SP1	1-504-825-11	SPEAKER (13CM)	
SP2	1-504-827-11	SPEAKER (5CM)	

****

ACCESSORIES & PACKING MATERIALS

****

	3-798-713-11	MANUAL INSTRUCTION (ENGLISH) (H70)	
*	4-973-845-01	INDIVDUAL CARTON (H70)	
*	4-971-217-01	CUSHION (H501)	

9-960-091-11

Sony Corporation
Consumer A&V Products Company
Home A&V Products Div.

English
95B02113-1
Printed in Japan

©1995.2

Published by Home A&V Products Div.
Quality Engineering Dept.

SS-H701

SERVICE MANUAL

US Model
Canadian Model
AEP Model
UK Model
E Model
Australian Model
Tourist Model

This set is the speaker system in
FH-G70/G70K/MHC-701/C305/S200/S300.

SPECIFICATIONS

Speaker system	3-way, Bass reffer type
Speaker unit	Woofer : 14 cm (5 5/8 in.), cone type
	Tweeter : 5 cm (2 in.), cone type
	Super tweeter : 2 cm (13/16 in.), dome type
Sensitivity	87 dm/W/m
Effective frequency range	
	65 Hz to 20 kHz
Rated impedance	6 ohms
Dimensions	195 × 325 × 250 mm (w/h/d)
	(7 3/4 × 12 7/8 × 9 7/8 in.)
Mass	Approx. 3.3 kg
	(7 lb 4 oz.) net per speaker

Design and specifications are subject to change without notice.

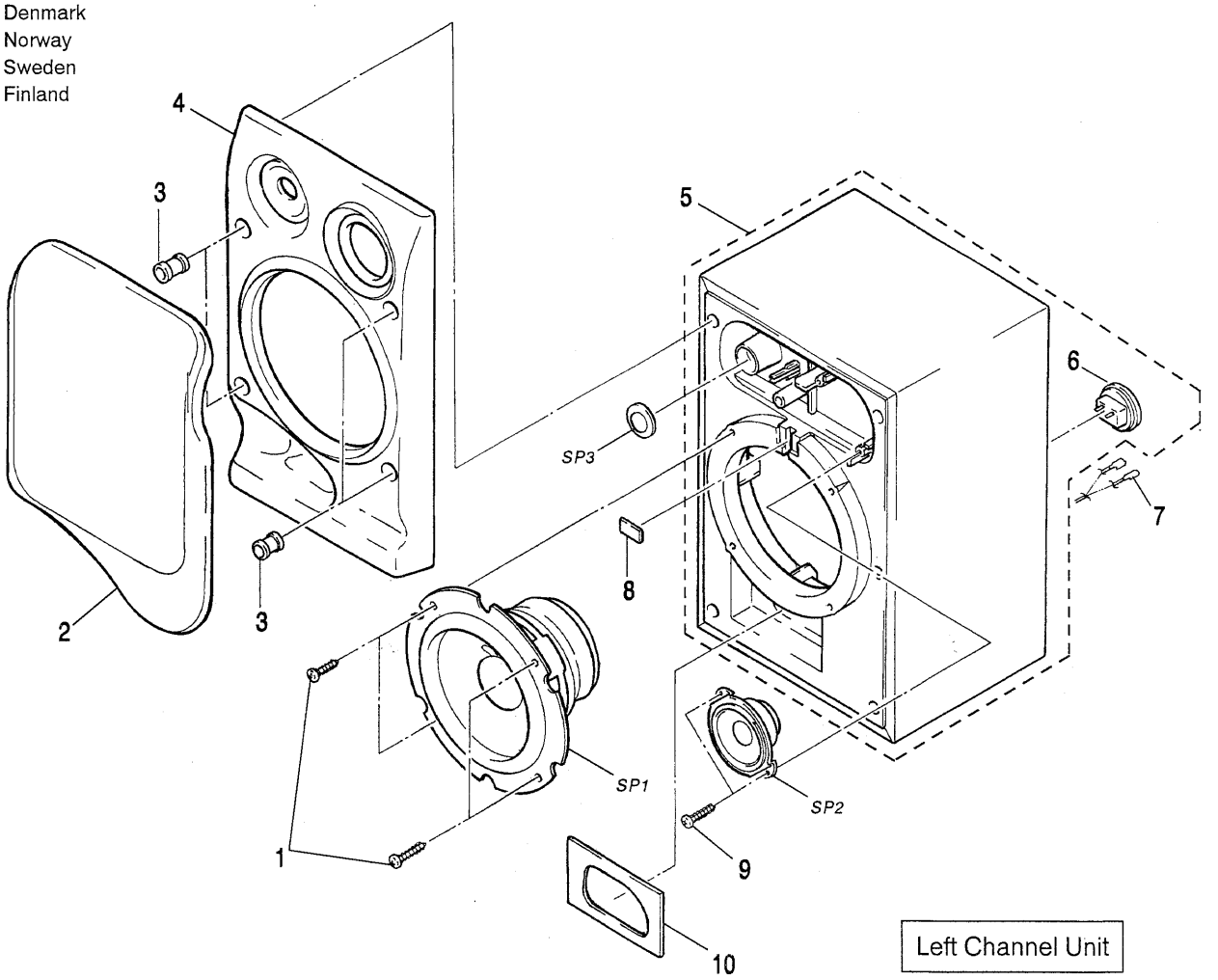
SPEAKER SYSTEM

SONY®

EXPLODED VIEW AND PARTS LIST

NOTE :

- Items marked " * "are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Abbreviation
  AED : German
  Denmark
  Norway
  Sweden
  Finland



Ref. No.	Part No.	Description	Remark
1	4-874-614-11	SCREW +BVTP 3.5×14	
2	X-4945-556-1	FRAME (L) ASSY, GRILLE	
2	X-4945-557-1	FRAME (R) ASSY, GRILLE	
3	4-951-733-01	CATCHER	
4	4-971-515-01	PANEL (L), FRONT	
4	4-971-519-01	PANEL (R), FRONT	
* 5	A-4361-321-A	CABINET (L) ASSY, SPEAKER (EXCEPT AED)	
* 5	A-4361-425-A	CABINET (L) ASSY, SPEAKER (AED)	
* 5	A-4361-322-A	CABINET (R) ASSY, SPEAKER (EXCEPT AED)	
* 5	A-4361-427-A	CABINET (R) ASSY, SPEAKER (AED)	
6	1-537-332-11	TERMINAL BOARD	
7	1-696-940-21	CORD, SPEAKER	
8	9-911-840-XX	PACKING	

Ref. No.	Part No.	Description	Remark
9	7-685-646-79	SCREW +BVTP 3×8 TYPE 2 SLIT	
* 10	4-971-211-01	PACKING	
SP1	1-504-828-11	SPEAKER (13CM)(WOOFER)	
SP2	1-504-827-11	SPEAKER (5CM) (TWEETER)	
SP3	1-504-826-11	SPEAKER (2CM) (SUPER TWEETER)	
**********			
		ACCESSORIES & PACKING MATERIALS	
		**********	
	1-769-306-11	CORD, SPEAKER	
*	4-971-217-01	CUSHION	

Sony Corporation
Consumer A&V Products Company
Home A&V Products Div.

English
95A02112-1
Printed in Japan

©1995.1

Published by Home A&V Products Div.
Quality Engineering Dept.

9-959-978-11